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SEQUENCE LISTING

<110> Kovesdi, Imre
Kessler, Paul

<120> VEGF FUSION PROTEINS

<130> 205654

<160> 126

<170> PatentIn version 3.0

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Pro Ser Cys Val Pro Leu Met Arg Cys Gly Gly Cys Cys Asn Asp Glu
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Gly Leu Glu Cys Val Pro Thr Glu Glu Ser Asn Ile Thr Met Gln Ile
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Met Arg Ile Lys Pro His Gln Gly Gln His Ile Gly Glu Met Ser Phe
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Ala Tyr Ser Gln Tyr Asp Arg Phe His Ile Gly Asn Glu Lys Gln Asn
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Ser Leu Ile Leu His Gly Ala Asp Phe Ser Thr Lys Asp Ala Asp Asn
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Ser	Gln	Tyr	Asp	Arg	Phe	His	Ile	Gly	Asn	Glu	Lys	Gln	Asn	Tyr	Arg	85	90	95	
Leu	Tyr	Leu	Lys	Gly	His	Thr	Gly	Thr	Ala	Gly	Lys	Gln	Ser	Ser	Leu	100	105	110	
Ile	Leu	His	Gly	Ala	Asp	Phe	Ser	Thr	Lys	Asp	Ala	Asp	Asn	Asp	Asn	115	120	125	
Cys	Met	Cys	Lys	Cys	Ala	Leu	Met	Leu	Thr	Gly	Gly	Trp	Trp	Phe	Asp	130	135	140	
Ala	Cys	Gly	Pro	Ser	Asn	Leu	Asn	Gly	Met	Phe	Tyr	Thr	Ala	Gly	Gln	145	150	155	160

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 35 40 45

Gln Lys Leu Glu Asn Tyr Ile Val Glu Asn Met Lys Ser Glu Met Ala
 50 55 60

Gln Ile Gln Gln Asn Ala Val Gln Asn His Thr Ala Thr Met Leu Glu
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Ile Gly Thr Ser Leu Leu Ser Gln Thr Ala Glu Gln Thr Arg Lys Leu
 85 90 95

Thr Asp Val Glu Thr Gln Val Leu Asn Gln Thr Ser Arg Leu Glu Ile
 100 105 110

Gln Leu Leu Glu Asn Ser Leu Ser Thr Tyr Lys Leu Glu Lys Gln Leu
 115 120 125

Leu Gln Gln Thr Asn Glu Ile Leu Lys Ile His Glu Lys Asn Ser Leu
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Leu Glu His Lys Ile Leu Glu Met Glu Gly Lys His Lys Glu Glu Leu
 145 150 155 160

Asp Thr Leu Lys Glu Glu Lys Glu Asn Leu Gln Gly Leu Val Thr Arg
 165 170 175

Gln Thr Tyr Ile Ile Gln Glu Leu Glu Lys Gln Leu Asn Arg Ala Thr
 180 185 190

Thr Asn Asn Ser Val Leu Gln Lys Gln Gln Leu Glu Leu Met Asp Thr
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Val His Asn Leu Val Asn Leu Cys Thr Lys Glu Gly Val Leu Leu Lys
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Gly Gly Lys Arg Glu Glu Glu Lys Pro Phe Arg
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 35 40 45

Glu

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 Val Asn Cys Lys Met Thr Ser Asp Gly Gly Trp Thr Val Ile Gln Arg
 35 40 45
 Arg His Asp Gly Ser Val Asp Phe Asn Arg Pro Trp Glu Ala Tyr Lys
 50 55 60
 Ala Gly Phe Gly Asp Pro His Gly Glu Phe Trp Leu Gly Leu Glu Lys
 65 70 75 80
 Val His Ser Ile Met Gly Asp Arg Asn Ser Arg Leu Ala Val Gln Leu
 85 90 95
 Arg Asp Trp Asp Gly Asn Ala Glu Leu Leu Gln Phe Ser Val His Leu
 100 105 110
 Gly Gly Glu Asp Thr Ala Tyr Ser Leu Gln Leu Thr Ala Pro Val Ala
 115 120 125
 Gly Gln Leu Gly Ala Thr Thr Val Pro Pro Ser Gly Leu Ser Val Pro
 130 135 140
 Phe Ser Thr Trp Asp Gln Asp His Asp Leu Arg Arg Asp Lys Asn Cys
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 Asn Leu Asn Gly Gln Tyr Phe Arg
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20 25 30

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35 40 45

Ile Ile Gln Arg Arg Glu Asp Gly Ser Val Asp Phe Gln Arg Thr Trp
50 55 60

Lys Glu Tyr Lys Val Gly Phe Gly Asn Pro Ser Gly Glu Tyr Trp Leu
65 70 75 80

Gly Asn Glu Phe Val Ser Gln Leu Thr Asn Gln Gln Arg Tyr Val Leu
85 90 95

Lys Ile His Leu Lys Asp Trp Glu Gly Asn Glu Ala Tyr Ser Leu Tyr
100 105 110

Glu His Phe Tyr Leu Ser Ser Glu Glu Leu Asn Tyr Arg Ile His Leu
115 120 125

Lys Gly Leu Thr Gly Thr Ala Gly Lys Ile Ser Ser Ile Ser Gln Pro
130 135 140

Gly Asn Asp Phe Ser Thr Lys Asp Gly Asp Asn Asp Lys Cys Ile Cys
145 150 155 160

Lys Cys Ser Gln Met Leu Thr Gly Gly Trp Trp Phe Asp Ala Cys Gly
165 170 175

Pro Ser Asn Leu Asn Gly Met Tyr Tyr Pro Gln Arg Gln Asn Thr Asn
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Lys Phe Asn Gly Ile Lys Trp Tyr Tyr Trp Lys Gly Ser Gly Tyr Ser
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85 90 95

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100 105 110

Asn Glu Leu Asn Ser Tyr Arg Leu Phe Leu Gly Asn Tyr Thr Gly Asn
115 120 125

Val Gly Asn Asp Ala Leu Gln Tyr His Asn Asn Thr Ala Phe Ser Thr
130 135 140

Lys Asp Lys Asp Asn Asp Asn Cys Leu Asp Lys Cys Ala Gln Leu Arg
145 150 155 160

Lys Gly Gly Tyr Trp Tyr Asn Cys Cys Thr Asp Ser Asn Leu Asn Gly
165 170 175

Val Tyr Tyr Arg Leu Gly Glu His Asn Lys His Leu Asp Gly Ile Thr
180 185 190

Trp Tyr Gly Trp His Gly Ser Thr Tyr Ser Leu Lys Arg Val Glu Met
195 200 205

Lys Ile Arg Pro Glu Asp Phe Lys Pro
210 215

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35 40 45

Gln Arg Arg Gln Asp Gly Ser Val Asn Phe Phe Thr Thr Trp Gln His
50 55 60

Tyr Lys Ala Gly Phe Gly Arg Pro Asp Gly Glu Tyr Trp Leu Gly Leu
65 70 75 80

Glu Pro Val Tyr Gln Leu Thr Ser Arg Gly Asp His Glu Leu Leu Val
85 90 95

Leu Leu Glu Asp Trp Gly Gly Arg Gly Ala Arg Ala His Tyr Asp Gly
100 105 110

Phe Ser Leu Glu Pro Glu Ser Asp His Tyr Arg Leu Arg Leu Gly Gln

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115	120	125
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Phe Ser Thr Val Asp Arg Asp Arg Asp Ser Tyr Ser Gly Asn Cys Ala		
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Leu Tyr Gln Arg Gly Gly Trp Trp Tyr His Ala Cys Ala His Ser Asn		
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Leu Asn Gly Val Trp His His Gly Gly His Tyr Arg Ser Arg Tyr Gln		
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Lys Ala Ala Met Leu Ile Arg Pro Leu Lys Leu		
210	215	
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<211> 215		
<212> PRT		
<213> Homo sapiens		
<400> 25		
Leu Pro Arg Asp Cys Gln Glu Leu Phe Gln Val Gly Glu Arg Gln Ser		
1	5	10
Gly Leu Phe Glu Ile Gln Pro Gln Gly Ser Pro Pro Phe Leu Val Asn		
	20	25
Cys Lys Met Thr Ser Asp Gly Gly Trp Thr Val Ile Gln Arg Arg His		
	35	40
Asp Gly Ser Val Asp Phe Asn Arg Pro Trp Glu Ala Tyr Lys Ala Gly		
	50	55
Phe Gly Asp Pro His Gly Glu Phe Trp Leu Gly Leu Glu Lys Val His		
65	70	75
Ser Ile Thr Gly Asp Arg Asn Ser Arg Leu Ala Val Gln Leu Arg Asp		
	85	90
Trp Asp Gly Asn Ala Glu Leu Leu Gln Phe Ser Val His Leu Gly Gly		
	100	105
Glu Asp Thr Ala Tyr Ser Leu Gln Leu Thr Ala Pro Val Ala Gly Gln		
	115	120
Leu Gly Ala Thr Thr Val Pro Pro Ser Gly Leu Ser Val Pro Phe Ser		
	130	135
Thr Trp Asp Gln Asp His Asp Leu Arg Arg Asp Lys Asn Cys Ala Lys		
145	150	155
Ser Leu Ser Gly Gly Trp Trp Phe Gly Thr Cys Ser His Ser Asn Leu		
	165	170
		175

Asn Gly Gln Tyr Phe Arg Ser Ile Pro Gln Gln Arg Gln Lys Leu Lys
 180 185 190

Lys Gly Ile Phe Trp Lys Thr Trp Arg Gly Arg Tyr Tyr Pro Leu Gln
 195 200 205

Ala Thr Thr Met Leu Ile Gln
 210 215

<210> 26
 <211> 222
 <212> PRT
 <213> Artificial/Unknown

<220>
 <221> misc_feature
 <222> ()..()
 <223> Source not known

<400> 26

Pro Arg Asp Cys Gln Glu Leu Phe Gln Val Gly Glu Arg Gln Ser Gly
 1 5 10 15

Leu Phe Glu Ile Gln Pro Gln Gly Ser Pro Pro Phe Leu Val Asn Cys
 20 25 30

Lys Met Thr Ser Asp Gly Gly Trp Thr Val Ile Gln Arg Arg His Asp
 35 40 45

Gly Ser Val Asp Phe Asn Arg Pro Trp Glu Ala Tyr Lys Ala Gly Phe
 50 55 60

Gly Asp Pro His Gly Glu Phe Trp Leu Gly Leu Glu Lys Val His Ser
 65 70 75 80

Ile Thr Gly Asp Arg Asn Ser Arg Leu Ala Val Gln Leu Arg Asp Trp
 85 90 95

Asp Gly Asn Ala Glu Leu Leu Gln Phe Ser Val His Leu Gly Gly Glu
 100 105 110

Asp Thr Ala Tyr Ser Leu Gln Leu Thr Ala Pro Val Ala Gly Gln Leu
 115 120 125

Gly Ala Thr Thr Val Pro Pro Ser Gly Leu Ser Val Pro Phe Ser Thr
 130 135 140

Trp Asp Gln Asp His Asp Leu Arg Arg Asp Lys Asn Cys Ala Lys Ser
 145 150 155 160

Leu Ser Gly Gly Trp Trp Phe Gly Thr Cys Ser His Ser Asn Leu Asn
 165 170 175

Gly Gln Tyr Phe Arg Ser Ile Pro Gln Gln Arg Gln Lys Leu Lys Lys
 180 185 190

Gly Ile Phe Trp Lys Thr Trp Arg Gly Arg Tyr Tyr Pro Leu Gln Ala

195					200					205				
Thr	Thr	Met	Leu	Ile	Gln	Pro	Met	Ala	Ala	Glu	Ala	Ala	Ser	
210						215					220			
<210> 27														
<211> 222														
<212> PRT														
<213> Artificial/Unknown														
<220>														
<221> misc_feature														
<222> ()..()														
<223> Source not known														
<400> 27														
His	Asp	Gly	Ile	Pro	Ala	Glu	Cys	Thr	Thr	Ile	Tyr	Asn	Arg	
1				5					10				15	
His	Thr	Ser	Gly	Met	Tyr	Ala	Ile	Arg	Pro	Ser	Asn	Ser	Gln	
			20					25					30	
His	Val	Tyr	Cys	Asp	Val	Ile	Ser	Gly	Ser	Pro	Trp	Thr	Leu	
	35						40					45		
His	Arg	Ile	Asp	Gly	Ser	Gln	Asn	Phe	Asn	Glu	Thr	Trp	Glu	
	50					55					60			
Lys	Tyr	Gly	Phe	Gly	Arg	Leu	Asp	Gly	Glu	Phe	Trp	Leu	Gly	
65						70					75		80	
Lys	Ile	Tyr	Ser	Ile	Val	Lys	Gln	Ser	Asn	Tyr	Val	Leu	Arg	
			85					90					95	
Leu	Glu	Asp	Trp	Lys	Asp	Asn	Lys	His	Tyr	Ile	Glu	Tyr	Ser	
		100						105					110	
Leu	Gly	Asn	His	Glu	Thr	Asn	Tyr	Thr	Leu	His	Leu	Val	Ala	
		115					120					125		
Gly	Asn	Val	Pro	Asn	Ala	Ile	Pro	Glu	Asn	Lys	Asp	Leu	Val	
	130					135					140			
Thr	Trp	Asp	His	Lys	Ala	Lys	Gly	His	Phe	Asn	Cys	Pro	Glu	
145						150					155		160	
Ser	Gly	Gly	Trp	Trp	Trp	His	Asp	Glu	Cys	Gly	Glu	Asn	Asn	
			165						170				175	
Gly	Lys	Tyr	Asn	Lys	Pro	Arg	Ala	Lys	Ser	Lys	Pro	Glu	Arg	
			180					185				190		
Gly	Leu	Ser	Trp	Lys	Ser	Gln	Asn	Gly	Arg	Leu	Tyr	Ser	Ile	
	195						200					205		
Thr	Lys	Met	Leu	Ile	His	Pro	Thr	Asp	Ser	Glu	Ser	Phe	Glu	
210						215						220		

<210> 28
 <211> 214
 <212> PRT
 <213> Mus musculus

<400> 28

Arg Asp Cys Gln Glu Leu Phe Gln Glu Gly Glu Arg His Ser Gly Leu
 1 5 10 15
 Phe Gln Ile Gln Pro Leu Gly Ser Pro Pro Phe Leu Val Asn Cys Glu
 20 25 30
 Met Thr Ser Asp Gly Gly Trp Thr Val Ile Gln Arg Arg Leu Asn Gly
 35 40 45
 Ser Val Asp Phe Asn Gln Ser Trp Glu Ala Tyr Lys Asp Gly Phe Gly
 50 55 60
 Asp Pro Gln Gly Glu Phe Trp Leu Gly Leu Glu Lys Met His Ser Ile
 65 70 75 80
 Thr Gly Asn Arg Gly Ser Gln Leu Ala Val Gln Leu Gln Asp Trp Asp
 85 90 95
 Gly Asn Ala Lys Leu Leu Gln Phe Pro Ile His Leu Gly Gly Glu Asp
 100 105 110
 Thr Ala Tyr Ser Leu Gln Leu Thr Glu Pro Thr Ala Asn Glu Leu Gly
 115 120 125
 Ala Thr Asn Val Ser Pro Asn Gly Leu Ser Leu Pro Phe Ser Thr Trp
 130 135 140
 Asp Gln Asp His Asp Leu Arg Gly Asp Leu Asn Cys Ala Lys Ser Leu
 145 150 155 160
 Ser Gly Gly Trp Trp Phe Gly Thr Cys Ser His Ser Asn Leu Asn Gly
 165 170 175
 Gln Tyr Phe His Ser Ile Pro Arg Gln Arg Gln Glu Arg Lys Lys Gly
 180 185 190
 Ile Phe Trp Lys Thr Trp Lys Gly Arg Tyr Tyr Pro Leu Gln Ala Thr
 195 200 205
 Thr Leu Leu Ile Gln Pro
 210

<210> 29
 <211> 216
 <212> PRT
 <213> Homo sapiens

<400> 29

Phe Gln Asp Cys Ala Glu Ile Lys Arg Ser Gly Val Asn Thr Ser Gly
 1 5 10 15

Val Tyr Thr Ile Tyr Glu Thr Asn Met Thr Lys Pro Leu Lys Val Phe
 20 25 30
 Cys Asp Met Glu Thr Asp Gly Gly Gly Trp Thr Leu Ile Gln His Arg
 35 40 45
 Glu Asp Gly Ser Val Asn Phe Gln Arg Thr Trp Glu Glu Tyr Lys Glu
 50 55 60
 Gly Phe Gly Asn Val Ala Arg Glu His Trp Leu Gly Asn Glu Ala Val
 65 70 75 80
 His Arg Leu Thr Ser Arg Thr Ala Tyr Leu Leu Arg Val Glu Leu His
 85 90 95
 Asp Trp Glu Gly Arg Gln Thr Ser Ile Gln Tyr Glu Asn Phe Gln Leu
 100 105 110
 Gly Ser Glu Arg Gln Arg Tyr Ser Leu Ser Val Asn Asp Ser Ser Ser
 115 120 125
 Ser Ala Gly Arg Lys Asn Ser Leu Ala Pro Gln Gly Thr Lys Phe Ser
 130 135 140
 Thr Lys Asp Met Asp Asn Asp Asn Cys Met Cys Lys Cys Ala Gln Met
 145 150 155 160
 Leu Ser Gly Gly Trp Trp Phe Asp Ala Cys Gly Leu Ser Asn Leu Asn
 165 170 175
 Gly Ile Tyr Tyr Ser Val His Gln His Leu His Lys Ile Asn Gly Ile
 180 185 190
 Arg Trp His Tyr Phe Arg Gly Pro Ser Tyr Ser Leu His Gly Thr Arg
 195 200 205
 Met Met Leu Arg Pro Met Gly Ala
 210 215

<210> 30
 <211> 216
 <212> PRT
 <213> Homo sapiens

<400> 30

Phe Gln Asp Cys Ala Glu Ile Gln Arg Ser Gly Ala Ser Ala Ser Gly
 1 5 10 15
 Val Tyr Thr Ile Gln Val Ser Asn Ala Thr Lys Pro Arg Lys Val Phe
 20 25 30
 Cys Asp Leu Gln Ser Ser Gly Gly Arg Trp Thr Leu Ile Gln Arg Arg
 35 40 45
 Glu Asn Gly Thr Val Asn Phe Gln Arg Asn Trp Lys Asp Tyr Lys Gln
 50 55 60
 Gly Phe Gly Asp Pro Ala Gly Glu His Trp Leu Gly Asn Glu Val Val

65		70		75		80
His Gln Leu Thr Arg Arg Ala Ala Tyr Ser Leu Arg Val Glu Leu Gln						
		85		90		95
Asp Trp Glu Gly His Glu Ala Tyr Ala Gln Tyr Glu His Phe His Leu						
		100		105		110
Gly Ser Glu Asn Gln Leu Tyr Arg Leu Ser Val Val Gly Tyr Ser Gly						
		115		120		125
Ser Ala Gly Arg Gln Ser Ser Leu Val Leu Gln Asn Thr Ser Phe Ser						
		130		135		140
Thr Leu Asp Ser Asp Asn Asp His Cys Leu Cys Lys Cys Ala Gln Val						
		145		150		155
Met Ser Gly Gly Trp Trp Phe Asp Ala Cys Gly Leu Ser Asn Leu Asn						
		165		170		175
Gly Val Tyr Tyr His Ala Pro Asp Asn Lys Tyr Lys Met Asp Gly Ile						
		180		185		190
Arg Trp His Tyr Phe Lys Gly Pro Ser Tyr Ser Leu Arg Ala Ser Arg						
		195		200		205
Met Met Ile Arg Pro Leu Asp Ile						
		210		215		

<210> 31
 <211> 224
 <212> PRT
 <213> Homo sapiens
 <400> 31

Lys Pro Ser Gly Pro Trp Arg Asp Cys Leu Gln Ala Leu Glu Asp Gly						
1		5		10		15
His Asp Thr Ser Ser Ile Tyr Leu Val Lys Pro Glu Asn Thr Asn Arg						
		20		25		30
Leu Met Gln Val Trp Cys Asp Gln Arg His Asp Pro Gly Gly Trp Thr						
		35		40		45
Val Ile Gln Arg Arg Leu Asp Gly Ser Val Asn Phe Phe Arg Asn Trp						
		50		55		60
Glu Thr Tyr Lys Gln Gly Phe Gly Asn Ile Asp Gly Glu Tyr Trp Leu						
65		70		75		80
Gly Leu Glu Asn Ile Tyr Trp Leu Thr Asn Gln Gly Asn Tyr Lys Leu						
		85		90		95
Leu Val Thr Met Glu Asp Trp Ser Gly Arg Lys Val Phe Ala Glu Tyr						
		100		105		110
Ala Ser Phe Arg Leu Glu Pro Glu Ser Glu Tyr Tyr Lys Leu Arg Leu						
		115		120		125

Cys Ala His Phe His Lys Gly Gly Trp Trp Tyr Asn Ala Cys Ala His
165 170 175

Ser Asn Leu Asn Gly Val Trp Tyr Arg Gly Gly His Tyr Arg Ser Lys
 180 185 190

His Gln Asp Gly Ile Phe Trp Ala Glu Tyr Arg Gly Gly Ser Tyr Ser
 195 200 205

Leu Arg Ala Val Gln Met Met Ile Lys Pro Ile Asp
 210 215 220

<210> 33

<211> 136

<212> PRT

<213> Homo sapiens

<400> 33

Gly Lys Lys Glu Lys Pro Glu Lys Lys Val Lys Lys Ser Asp Cys Gly
 1 5 10 15

Glu Trp Gln Trp Ser Val Cys Val Pro Thr Ser Gly Asp Cys Gly Leu
 20 25 30

Gly Thr Arg Glu Gly Thr Arg Thr Gly Ala Glu Cys Lys Gln Thr Met
 35 40 45

Lys Thr Gln Arg Cys Lys Ile Pro Cys Asn Trp Lys Lys Gln Phe Gly
 50 55 60

Ala Glu Cys Lys Tyr Gln Phe Gln Ala Trp Gly Glu Cys Asp Leu Asn
 65 70 75 80

Thr Ala Leu Lys Thr Arg Thr Gly Ser Leu Lys Arg Ala Leu His Asn
 85 90 95

Ala Glu Cys Gln Lys Thr Val Thr Ile Ser Lys Pro Cys Gly Lys Leu
 100 105 110

Thr Lys Pro Lys Pro Gln Ala Glu Ser Lys Lys Lys Lys Lys Glu Gly
 115 120 125

Lys Lys Gln Glu Lys Met Leu Asp
 130 135

<210> 34

<211> 121

<212> PRT

<213> Homo sapiens

<400> 34

Lys Lys Lys Asp Lys Val Lys Lys Gly Gly Pro Gly Ser Glu Cys Ala
 1 5 10 15

Glu Trp Ala Trp Gly Pro Cys Thr Pro Ser Ser Lys Asp Cys Gly Val
 20 25 30

Gly Phe Arg Glu Gly Thr Cys Gly Ala Gln Thr Gln Arg Ile Arg Cys
 35 40 45

Arg Val Pro Cys Asn Trp Lys Lys Glu Phe Gly Ala Asp Cys Lys Tyr
 50 55 60

Lys Phe Glu Asn Trp Gly Ala Cys Asp Gly Gly Thr Gly Thr Lys Val
 65 70 75 80

Arg Gln Gly Thr Leu Lys Lys Ala Arg Tyr Asn Ala Gln Cys Gln Glu
 85 90 95

Thr Ile Arg Val Thr Lys Pro Cys Thr Pro Lys Thr Lys Ala Lys Ala
 100 105 110

Lys Ala Lys Lys Gly Lys Gly Lys Asp
 115 120

<210> 35

<211> 43

<212> PRT

<213> Homo sapiens

<400> 35

Cys Lys Tyr Gln Phe Gln Ala Trp Gly Glu Cys Asp Leu Asn Thr Ala
 1 5 10 15

Leu Lys Thr Arg Thr Gly Ser Leu Lys Arg Ala Leu His Asn Ala Glu
 20 25 30

Cys Gln Lys Thr Val Thr Ile Ser Lys Pro Cys
 35 40

<210> 36

<211> 54

<212> PRT

<213> Homo sapiens

<400> 36

Ala Glu Cys Lys Tyr Gln Phe Gln Ala Trp Gly Glu Cys Asp Leu Asn
 1 5 10 15

Thr Ala Leu Lys Thr Arg Thr Gly Ser Leu Lys Arg Ala Leu His Asn
 20 25 30

Ala Glu Cys Gln Lys Thr Val Thr Ile Ser Lys Pro Cys Gly Lys Leu
 35 40 45

Thr Lys Pro Lys Pro Gln
 50

<210> 37

<211> 72

<212> PRT

<213> Homo sapiens

<400> 37

Ala Glu Cys Lys Tyr Gln Phe Gln Ala Trp Gly Glu Cys Asp Leu Asn
 1 5 10 15

Thr Ala Leu Lys Thr Arg Thr Gly Ser Leu Lys Arg Ala Leu His Asn
 20 25 30

Ala Glu Cys Gln Lys Thr Val Thr Ile Ser Lys Pro Cys Gly Lys Leu
 35 40 45

Thr Lys Pro Lys Pro Gln Ala Glu Ser Lys Lys Lys Lys Lys Glu Gly
 50 55 60

Lys Lys Gln Glu Lys Met Leu Asp
 65 70

<210> 38

<211> 80

<212> PRT

<213> Homo sapiens

<400> 38

Cys Gly Glu Trp Thr Trp Gly Pro Cys Ile Pro Asn Ser Lys Asp Cys
 1 5 10 15

Gly Leu Gly Thr Arg Glu Gly Thr Cys Lys Gln Glu Thr Arg Lys Leu
 20 25 30

Lys Cys Lys Ile Pro Cys Asn Trp Lys Lys Gln Phe Gly Ala Asp Cys
 35 40 45

Lys Tyr Lys Phe Glu Ser Trp Gly Glu Cys Asp Ala Asn Thr Gly Leu
 50 55 60

Lys Thr Arg Ser Gly Thr Leu Lys Lys Ala Leu Tyr Asn Ala Asp Cys
 65 70 75 80

<210> 39

<211> 21

<212> PRT

<213> Homo sapiens

<400> 39

Gly Lys Lys Glu Lys Pro Glu Lys Lys Val Lys Lys Ser Asp Cys Gly
 1 5 10 15

Glu Trp Gln Trp Ser
 20

<210> 40

<211> 16

<212> PRT

<213> Homo sapiens

<400> 40

Ser Lys Lys Lys Lys Lys Glu Gly Lys Lys Gln Glu Lys Met Leu Asp
 1 5 10 15

<210> 41

<211> 61
 <212> PRT
 <213> Homo sapiens

<400> 41

Asp Cys Lys Tyr Lys Phe Glu Asn Trp Gly Ala Cys Asp Gly Gly Thr
 1 5 10 15
 Gly Thr Lys Val Arg Gln Gly Thr Leu Lys Lys Ala Arg Tyr Asn Ala
 20 25 30
 Gln Cys Gln Glu Thr Ile Arg Val Thr Lys Pro Cys Thr Pro Lys Thr
 35 40 45
 Lys Ala Lys Ala Lys Ala Lys Lys Gly Lys Gly Lys Asp
 50 55 60

<210> 42
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 42

Lys Tyr Lys Phe Glu Asn Trp Gly Ala Cys Asp Gly Gly Thr Gly Thr
 1 5 10 15
 Lys Val Arg Gln Gly Thr Leu Lys Lys Ala Arg Tyr Asn Ala Gln Cys
 20 25 30
 Gln Glu Thr Ile Arg Val Thr Lys Pro Cys
 35 40

<210> 43
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 43

Met Gln Ala Gln Gln Tyr Gln Gln Gln Arg Arg Lys Phe Ala Ala Ala
 1 5 10 15
 Phe Leu Ala Phe Ile Phe Ile Leu Ala Ala Val Asp Thr Ala Glu Ala
 20 25 30

<210> 44
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 44

Met Gln His Arg Gly Phe Leu Leu Leu Thr Leu Leu Ala Leu Leu Ala
 1 5 10 15
 Leu Thr Ser Ala
 20

<210> 45
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 45

Phe Asn Leu Pro Pro Gly Asn Tyr Lys Lys Pro Lys Leu Leu Tyr Cys
 1 5 10 15

Ser Asn Gly Gly His Phe Leu Arg Ile Leu Pro Asp Gly Thr Val Asp
 20 25 30

Gly Thr Arg Asp Arg Ser Asp Gln His Ile Gln Leu Gln Leu Ser Ala
 35 40 45

Glu Ser Val Gly Glu Val Tyr Ile Lys Ser Thr Glu Thr Gly Gln Tyr
 50 55 60

Leu Ala Met Asp Thr Asp Gly Leu Leu Tyr Gly Ser Gln Thr Pro Asn
 65 70 75 80

Glu Glu Cys Leu Phe Leu Glu Arg Leu Glu Glu Asn His Tyr Asn Thr
 85 90 95

Tyr Ile Ser Lys Lys His Ala Glu Lys Asn Trp Phe Val Gly Leu Lys
 100 105 110

Lys Asn Gly Ser Cys Lys Arg Gly Pro Arg Thr His Tyr Gly Gln Lys
 115 120 125

Ala Ile Leu Phe Leu Pro Leu Pro Val Ser Ser
 130 135

<210> 46
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 46

Met Ala Glu Gly Glu Ile Thr Thr Phe Thr Ala Leu Thr Glu Lys
 1 5 10 15

<210> 47
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 47

Lys Lys Asn Gly Ser Cys Lys Arg
 1 5

<210> 48
 <211> 13
 <212> PRT
 <213> Artificial/Unknown

<220>
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 <222> ()..()
 <223> Synthetic

<220>
 <221> misc_feature
 <222> (5)..(5)
 <223> "Xaa" may be between 5 and 7 of any amino acids

<220>
 <221> misc_feature
 <222> (7)..(9)
 <223> "Xaa" may be any amino acid

<400> 48

Arg Leu Tyr Cys Xaa Leu Xaa Xaa Xaa Pro Asp Gly Arg
 1 5 10

<210> 49
 <211> 4
 <212> PRT
 <213> Homo sapiens

<400> 49

Ile Ser Ser Lys
 1

<210> 50
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 50

Lys Lys Pro Lys Leu
 1 5

<210> 51
 <211> 535
 <212> PRT
 <213> Homo sapiens

<400> 51

Met Leu Gly Pro Cys Met Leu Leu Leu Leu Leu Leu Gly Leu Arg
 1 5 10 15

Leu Gln Leu Ser Leu Gly Ile Ile Pro Val Glu Glu Glu Asn Pro Asp
 20 25 30

Phe Trp Asn Arg Glu Ala Ala Glu Ala Leu Gly Ala Ala Lys Lys Leu
 35 40 45

Gln Pro Ala Gln Thr Ala Ala Lys Asn Leu Ile Ile Phe Leu Gly Asp
 50 55 60

Gly Met Gly Val Ser Thr Val Thr Ala Ala Arg Ile Leu Lys Gly Gln
 65 70 75 80
 Lys Lys Asp Lys Leu Gly Pro Glu Ile Pro Leu Ala Met Asp Arg Phe
 85 90 95
 Pro Tyr Val Ala Leu Ser Lys Thr Tyr Asn Val Asp Lys His Val Pro
 100 105 110
 Asp Ser Gly Ala Thr Ala Thr Ala Tyr Leu Cys Gly Val Lys Gly Asn
 115 120 125
 Phe Gln Thr Ile Gly Leu Ser Ala Ala Ala Arg Phe Asn Gln Cys Asn
 130 135 140
 Thr Thr Arg Gly Asn Glu Val Ile Ser Val Met Asn Arg Ala Lys Lys
 145 150 155 160
 Ala Gly Lys Ser Val Gly Val Val Thr Thr Thr Arg Val Gln His Ala
 165 170 175
 Ser Pro Ala Gly Thr Tyr Ala His Thr Val Asn Arg Asn Trp Tyr Ser
 180 185 190
 Asp Ala Asp Val Pro Ala Ser Ala Arg Gln Glu Gly Cys Gln Asp Ile
 195 200 205
 Ala Thr Gln Leu Ile Ser Asn Met Asp Ile Asp Val Ile Leu Gly Gly
 210 215 220
 Gly Arg Lys Tyr Met Phe Arg Met Gly Thr Pro Asp Pro Glu Tyr Pro
 225 230 235 240
 Asp Asp Tyr Ser Gln Gly Gly Thr Arg Leu Asp Gly Lys Asn Leu Val
 245 250 255
 Gln Glu Trp Leu Ala Lys Arg Gln Gly Ala Arg Tyr Val Trp Asn Arg
 260 265 270
 Thr Glu Leu Met Gln Ala Ser Leu Asp Pro Ser Val Thr His Leu Met
 275 280 285
 Gly Leu Phe Glu Pro Gly Asp Met Lys Tyr Glu Ile His Arg Asp Ser
 290 295 300
 Thr Leu Asp Pro Ser Leu Met Glu Met Thr Glu Ala Ala Leu Arg Leu
 305 310 315 320
 Leu Ser Arg Asn Pro Arg Gly Phe Phe Leu Phe Val Glu Gly Gly Arg
 325 330 335
 Ile Asp His Gly His His Glu Ser Arg Ala Tyr Arg Ala Leu Thr Glu
 340 345 350
 Thr Ile Met Phe Asp Asp Ala Ile Glu Arg Ala Gly Gln Leu Thr Ser
 355 360 365
 Glu Glu Asp Thr Leu Ser Leu Val Thr Ala Asp His Ser His Val Phe

370 375 380
 Ser Phe Gly Gly Tyr Pro Leu Arg Gly Ser Ser Ile Phe Gly Leu Ala
 385 390 395 400
 Pro Gly Lys Ala Arg Asp Arg Lys Ala Tyr Thr Val Leu Leu Tyr Gly
 405 410 415
 Asn Gly Pro Gly Tyr Val Leu Lys Asp Gly Ala Arg Pro Asp Val Thr
 420 425 430
 Glu Ser Glu Ser Gly Ser Pro Glu Tyr Arg Gln Gln Ser Ala Val Pro
 435 440 445
 Leu Asp Glu Glu Thr His Ala Gly Glu Asp Val Ala Val Phe Ala Arg
 450 455 460
 Gly Pro Gln Ala His Leu Val His Gly Val Gln Glu Gln Thr Phe Ile
 465 470 475 480
 Ala His Val Met Ala Phe Ala Ala Cys Leu Glu Pro Tyr Thr Ala Cys
 485 490 495
 Asp Leu Ala Pro Pro Ala Gly Thr Thr Asp Ala Ala His Pro Gly Arg
 500 505 510
 Ser Val Val Pro Ala Leu Leu Pro Leu Leu Ala Gly Thr Leu Leu Leu
 515 520 525
 Leu Glu Thr Ala Thr Ala Pro
 530 535
 <210> 52
 <211> 22
 <212> PRT
 <213> Homo sapiens
 <400> 52
 Met Leu Gly Pro Cys Met Leu Leu Leu Leu Leu Leu Gly Leu Arg
 1 5 10 15
 Leu Gln Leu Ser Leu Gly
 20
 <210> 53
 <211> 29
 <212> PRT
 <213> Homo sapiens
 <400> 53
 Ala Ala His Pro Gly Arg Ser Val Val Pro Ala Leu Leu Pro Leu Leu
 1 5 10 15
 Ala Gly Thr Leu Leu Leu Leu Glu Thr Ala Thr Ala Pro
 20 25
 <210> 54

<211> 108
 <212> PRT
 <213> Homo sapiens

<400> 54

Gly Met Gly Val Ser Thr Val Thr Ala Ala Arg Ile Leu Lys Gly Gln
 1 5 10 15
 Lys Lys Asp Lys Leu Gly Pro Glu Ile Pro Leu Ala Met Asp Arg Phe
 20 25 30
 Pro Tyr Val Ala Leu Ser Lys Thr Tyr Asn Val Asp Lys His Val Pro
 35 40 45
 Asp Ser Gly Ala Thr Ala Thr Ala Tyr Leu Cys Gly Val Lys Gly Asn
 50 55 60
 Phe Gln Thr Ile Gly Leu Ser Ala Ala Ala Arg Phe Asn Gln Cys Asn
 65 70 75 80
 Thr Thr Arg Gly Asn Glu Val Ile Ser Val Met Asn Arg Ala Lys Lys
 85 90 95
 Ala Gly Lys Ser Val Gly Val Val Thr Thr Thr Arg
 100 105

<210> 55
 <211> 20
 <212> PRT
 <213> Artificial/Unknown

<220>
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 <222> ()..()
 <223> Synthetic

<220>
 <221> misc_feature
 <222> (8)..(8)
 <223> "Xaa" may be any amino acid

<400> 55

Ala Gln Val Pro Asp Ser Ala Xaa Thr Ala Thr Ala Tyr Leu Cys Gly
 1 5 10 15
 Val Lys Ala Asn
 20

<210> 56
 <211> 86
 <212> PRT
 <213> Artificial/Unknown

<220>
 <221> misc_feature
 <222> ()..()
 <223> Synthetic

<220>
<221> misc_feature
<222> (7)..(7)
<223> "Xaa" may be any amino acid

<220>
<221> misc_feature
<222> (30)..(30)
<223> "Xaa" may be any amino acid

<220>
<221> misc_feature
<222> (33)..(34)
<223> "Xaa" may be any amino acid

<220>
<221> misc_feature
<222> (36)..(36)
<223> "Xaa" may be any amino acid

<220>
<221> misc_feature
<222> (39)..(39)
<223> "Xaa" may be any amino acid

<220>
<221> misc_feature
<222> (41)..(41)
<223> "Xaa" may be any amino acid

<220>
<221> misc_feature
<222> (44)..(44)
<223> "Xaa" may be any amino acid

<220>
<221> misc_feature
<222> (47)..(47)
<223> "Xaa" may be any amino acid

<220>
<221> misc_feature
<222> (56)..(57)
<223> "Xaa" may be any amino acid

<220>
<221> misc_feature
<222> (65)..(65)
<223> "Xaa" may be any amino acid

<220>
<221> misc_feature
<222> (78)..(79)
<223> "Xaa" may be any amino acid

<220>
<221> misc_feature
<222> (81)..(81)

<223> "Xaa" may be any amino acid

<220>

<221> misc_feature

<222> (83)..(83)

<223> "Xaa" may be any amino acid

<400> 56

Thr	Asn	Val	Ala	Lys	Asn	Xaa	Ile	Met	Phe	Leu	Gly	Asp	Gly	Met	Gly
1				5					10					15	

Val	Ser	Thr	Val	Thr	Ala	Ala	Arg	Ile	Leu	Lys	Gly	Gln	Xaa	His	His
			20					25					30		

Xaa	Xaa	Gly	Xaa	Glu	Thr	Xaa	Leu	Xaa	Met	Asp	Xaa	Phe	Pro	Xaa	Val
		35					40					45			

Ala	Leu	Ser	Lys	Thr	Tyr	Asn	Xaa	Xaa	Ala	Gln	Val	Pro	Asp	Ser	Ala
	50					55					60				

Xaa	Thr	Ala	Thr	Ala	Tyr	Leu	Cys	Gly	Val	Lys	Ala	Asn	Xaa	Xaa	Thr
65					70					75					80

Xaa	Gly	Xaa	Ser	Ala	Ala
					85

<210> 57

<211> 53

<212> PRT

<213> Artificial/Unknown

<220>

<221> misc_feature

<222> ()..()

<223> Synthetic

<220>

<221> misc_feature

<222> (6)..(6)

<223> "Xaa" may be any amino acid

<220>

<221> misc_feature

<222> (16)..(16)

<223> "Xaa" may be any amino acid

<220>

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<222> (22)..(22)

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<220>

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<220>

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<223> "Xaa" may be any amino acid

<400> 57

Glu Asp Thr Leu Thr Xaa Val Thr Ala Asp His Ser His Val Phe Xaa
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Phe Gly Gly Tyr Thr Xaa Arg Gly Asn Ser Ile Phe Gly Leu Ala Pro
 20 25 30

Met Xaa Xaa Asp Thr Asp Lys Lys Xaa Xaa Thr Ala Ile Leu Tyr Gly
 35 40 45

Asn Gly Pro Gly Tyr
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<210> 58

<211> 22

<212> PRT

<213> Homo sapiens

<400> 58

Val Val Pro Ala Leu Leu Pro Leu Leu Ala Gly Thr Leu Leu Leu Leu
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Glu Thr Ala Thr Ala Pro
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<210> 59

<211> 154

<212> PRT

<213> Homo sapiens

<400> 59

Met Asn Phe Leu Leu Ser Trp Val His Trp Ser Leu Ala Leu Leu Leu
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Tyr Leu His His Ala Lys Trp Ser Gln Ala Ala Pro Met Ala Glu Gly
 20 25 30

Gly Gly Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln
 35 40 45

Arg Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile Phe Gln Glu
 50 55 60

Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu
 65 70 75 80

Met Arg Cys Gly Gly Cys Cys Asn Asp Glu Gly Leu Glu Cys Val Pro
 85 90 95

Thr Glu Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His
 100 105 110

Gln Gly Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys

115 120 125
 Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg Gln Glu Lys Lys Ser Val
 130 135 140

Arg Gly Lys Gly Cys Asp Lys Pro Arg Arg
 145 150

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Tyr Leu His His Ala Lys Trp Ser Gln Ala Ala Pro Met Ala Glu Gly
 20 25 30

Gly Gly Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln
 35 40 45

Arg Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile Phe Gln Glu
 50 55 60

Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu
 65 70 75 80

Met Arg Cys Gly Gly Cys Cys Asn Asp Glu Gly Leu Glu Cys Val Pro
 85 90 95

Thr Glu Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His
 100 105 110

Gln Gly Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys
 115 120 125

Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg Gln Glu Lys Lys Ser Val
 130 135 140

Arg Gly Lys Gly Lys Gly Gln Lys Arg Lys Arg Lys Cys Asp Lys Pro
 145 150 155 160

Arg Arg

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<223> Synthetic

<400> 61

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1				5					10					15	

Tyr	Leu	His	His	Ala	Lys	Trp	Ser	Gln	Ala	Ala	Pro	Met	Ala	Glu	Gly
			20					25					30		

Gly	Gly	Gln	Asn	His	His	Glu	Val	Val	Lys	Phe	Met	Asp	Val	Tyr	Gln
		35					40					45			

Arg	Ser	Tyr	Cys	His	Pro	Ile	Glu	Thr	Leu	Val	Asp	Ile	Phe	Gln	Glu
	50					55					60				

Tyr	Pro	Asp	Glu	Ile	Glu	Tyr	Ile	Phe	Lys	Pro	Ser	Cys	Val	Pro	Leu
65					70				75						80

Met	Arg	Cys	Gly	Gly	Cys	Cys	Asn	Asp	Glu	Gly	Leu	Glu	Cys	Val	Pro
				85					90					95	

Thr	Glu	Glu	Ser	Asn	Ile	Thr	Met	Gln	Ile	Met	Arg	Ile	Lys	Pro	His
			100					105					110		

Gln	Gly	Gln	His	Ile	Gly	Glu	Met	Ser	Phe	Leu	Gln	His	Asn	Lys	Cys
		115					120					125			

Glu	Cys	Arg	Pro	Lys	Lys	Asp	Arg	Ala	Arg	Gln	Glu	Lys	Lys	Lys	Lys
	130					135					140				

Cys	Asp	Lys	Pro	Arg	Arg
145				150	

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<211> 154

<212> PRT

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<223> Synthetic

<400> 62

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1				5					10					15	

Tyr	Leu	His	His	Ala	Lys	Trp	Ser	Gln	Ala	Ala	Pro	Met	Ala	Glu	Gly
			20					25					30		

Gly	Gly	Gln	Asn	His	His	Glu	Val	Val	Lys	Phe	Met	Asp	Val	Tyr	Gln
		35					40					45			

Arg	Ser	Tyr	Cys	His	Pro	Ile	Glu	Thr	Leu	Val	Asp	Ile	Phe	Gln	Glu
	50					55					60				

Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu
65 70 75 80

Met Arg Cys Gly Gly Cys Cys Asn Asp Glu Gly Leu Glu Cys Val Pro
85 90 95

Thr Glu Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His
100 105 110

Gln Gly Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys
115 120 125

Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg Gln Glu Lys Lys Lys Lys
130 135 140

Lys Lys Lys Lys Cys Asp Lys Pro Arg Arg
145 150

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<211> 7
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Gly Gly Gly Gly Ser Ser Ser
1 5

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Ile Glu Gly Arg
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Pro Gly Ile Ser Gly Gly Gly Gly Gly
1 5

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<400> 66

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
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<210> 67
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<400> 67

Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Lys Glu Phe
1 5 10

<210> 68
<211> 26
<212> PRT
<213> Homo sapiens

<400> 68

Met Asn Phe Leu Leu Ser Trp Val His Trp Ser Leu Ala Leu Leu Leu
1 5 10 15

Val Leu His His Ala Lys Trp Ser Gln Ala
20 25

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<211> 33
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<400> 69

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 <211> 39
 <212> DNA
 <213> Artificial/Unknown

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<400> 70
 ctaaattggtt tctcttcctc cccgcctcgg ctgtgcaca

39

<210> 71
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<400> 71
 tgtgacaagc ctgaggcggg aggaagagaa accatttag

39

<210> 72
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 <212> DNA
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<400> 72
 cgcgatcct caaaaatcta aaggtcga

28

<210> 73
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 cctgatgaga tcgagtacat cttcaagcca atgaactttc tgctgtcttg ggtgcattgg 180
 agccttgcct tgctgtctta cctccaccat gccaaagtggc cccagtcctg tgtgcccctg 240

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aaatgtgaca agccgaggcg ggaggaagag aaaccattta gagactgtgc agatgtatat 480
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gaagatggaa gtctagattt ccaaagaggc tggaaggaat ataaaatggg ttttggaat 660
ccctccggtg aatattggct ggggaatgag tttatTTTTG ccattaccag tcagaggcag 720
tacatgctaa gaattgagtt aatggactgg gaagggaacc gagcctattc acagtatgac 780
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<400> 74

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Met Asn Phe Leu Leu Ser Trp Val His Trp Ser Leu Ala Leu Leu Leu
1           5           10           15

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Tyr Leu His His Ala Lys Trp Ser Gln Ala Ala Pro Met Ala Glu Gly
          20           25           30

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Gly Gly Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln
          35           40           45

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Arg Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile Phe Gln Glu
          50           55           60

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Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu
65           70           75           80

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Met Arg Cys Gly Gly Cys Cys Asn Asp Glu Gly Leu Glu Cys Val Pro
          85           90           95

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Thr Glu Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His
      100                      105          110

Gln Gly Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys
      115                      120          125

Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg Gln Glu Lys Cys Asp Lys
      130                      135          140

Pro Arg Arg Glu Glu Glu Lys Pro Phe Arg Asp Cys Ala Asp Val Tyr
      145                      150          155          160

Gln Ala Gly Phe Asn Lys Ser Gly Ile Tyr Thr Ile Tyr Ile Asn Asn
      165                      170          175

Met Pro Glu Pro Lys Lys Val Phe Cys Asn Met Asp Val Asn Gly Gly
      180                      185          190

Gly Trp Thr Val Ile Gln His Arg Glu Asp Gly Ser Leu Asp Phe Gln
      195                      200          205

Arg Gly Trp Lys Glu Tyr Lys Met Gly Phe Gly Asn Pro Ser Gly Glu
      210                      215          220

Tyr Trp Leu Gly Asn Glu Phe Ile Phe Ala Ile Thr Ser Gln Arg Gln
      225                      230          235          240

Tyr Met Leu Arg Ile Glu Leu Met Asp Trp Glu Gly Asn Arg Ala Tyr
      245                      250          255

Ser Gln Tyr Asp Arg Phe His Ile Gly Asn Glu Lys Gln Asn Tyr Arg
      260                      265          270

Leu Tyr Leu Lys Gly His Thr Gly Thr Ala Gly Lys Gln Ser Ser Leu
      275                      280          285

Ile Leu His Gly Ala Asp Phe Ser Thr Lys Asp Ala Asp Asn Asp Asn
      290                      295          300

Cys Met Cys Lys Cys Ala Leu Met Leu Thr Gly Gly Trp Trp Phe Asp
      305                      310          315          320

Ala Cys Gly Pro Ser Asn Leu Asn Gly Met Phe Tyr Thr Ala Gly Gln
      325                      330          335

Asn His Gly Lys Leu Asn Gly Ile Lys Trp His Tyr Phe Lys Gly Pro
      340                      345          350

Ser Tyr Ser Leu Arg Ser Thr Thr Met Met Ile Arg Pro Leu Asp Phe
      355                      360          365

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aacatcacca tgcagattat gcggatcaaa cctcaccaag gccagcacat aggagagatg      360
agcttcctac agcacaacaa atgtgaatgc agaccaaaga aagatagagc aagacaagaa      420
aaatgtgaca agccgaggcg gcaatttggc gcggagtgca aataccagtt ccaggcctgg      480

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ggagaatgtg acctgaacac agccctgaag accagaactg gaagtctgaa gcgagccctg 540
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<400> 79

Met	Asn	Phe	Leu	Leu	Ser	Trp	Val	His	Trp	Ser	Leu	Ala	Leu	Leu	Leu	1	5	10	15
Tyr	Leu	His	His	Ala	Lys	Trp	Ser	Gln	Ala	Ala	Pro	Met	Ala	Glu	Gly	20	25	30	
Gly	Gly	Gln	Asn	His	His	Glu	Val	Val	Lys	Phe	Met	Asp	Val	Tyr	Gln	35	40	45	
Arg	Ser	Tyr	Cys	His	Pro	Ile	Glu	Thr	Leu	Val	Asp	Ile	Phe	Gln	Glu	50	55	60	
Tyr	Pro	Asp	Glu	Ile	Glu	Tyr	Ile	Phe	Lys	Pro	Ser	Cys	Val	Pro	Leu	65	70	75	80
Met	Arg	Cys	Gly	Gly	Cys	Cys	Asn	Asp	Glu	Gly	Leu	Glu	Cys	Val	Pro	85	90	95	
Thr	Glu	Glu	Ser	Asn	Ile	Thr	Met	Gln	Ile	Met	Arg	Ile	Lys	Pro	His	100	105	110	
Gln	Gly	Gln	His	Ile	Gly	Glu	Met	Ser	Phe	Leu	Gln	His	Asn	Lys	Cys	115	120	125	
Glu	Cys	Arg	Pro	Lys	Lys	Asp	Arg	Ala	Arg	Gln	Glu	Lys	Cys	Asp	Lys	130	135	140	
Pro	Arg	Arg	Gln	Phe	Gly	Ala	Glu	Cys	Lys	Tyr	Gln	Phe	Gln	Ala	Trp	145	150	155	160
Gly	Glu	Cys	Asp	Leu	Asn	Thr	Ala	Leu	Lys	Thr	Arg	Thr	Gly	Ser	Leu	165	170	175	
Lys	Arg	Ala	Leu	His	Asn	Ala	Glu	Cys	Gln	Lys	Thr	Val	Thr	Ile	Ser	180	185	190	
Lys	Pro	Cys	Gly	Lys	Leu	Thr	Lys	Pro	Lys	Pro	Gln	Ala	Glu	Ser	Lys	195	200	205	

Lys Lys Lys Lys Glu Gly Lys Lys Gln Glu Lys Met Leu Asp
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 <211> 37
 <212> DNA
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gccaaagtggc cccaggctgc acccatggca gaaggaggag ggcagaatca tcacgaagtg

120

gtgaagttca tggatgtcta tcagcgcagc tactgccatc caatcgagac cctggtggac

180

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 aacatcacca tgcagattat gcggatcaaa cctcaccaag gccagcacat aggagagatg 360
 agcttcctac agcacaacaa atgtgaatgc agaccaaaga aagatagagc aagacaagaa 420
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<400> 84

Met Asn Phe Leu Leu Ser Trp Val His Trp Ser Leu Ala Leu Leu Leu
1 5 10 15

Tyr Leu His His Ala Lys Trp Ser Gln Ala Ala Pro Met Ala Glu Gly
20 25 30

Gly Gly Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln
35 40 45

Arg Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile Phe Gln Glu
50 55 60

Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu
65 70 75 80

Met Arg Cys Gly Gly Cys Cys Asn Asp Glu Gly Leu Glu Cys Val Pro
85 90 95

Thr Glu Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His
100 105 110

Gln Gly Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys
115 120 125

Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg Gln Glu Lys Cys Asp Lys
130 135 140

Pro Arg Arg Glu Phe Gly Ala Asp Cys Lys Tyr Lys Phe Glu Asn Trp
145 150 155 160

Gly Ala Cys Asp Gly Gly Thr Gly Thr Lys Val Arg Gln Gly Thr Leu

165 170 175
 Lys Lys Ala Arg Tyr Asn Ala Gln Cys Gln Glu Thr Ile Arg Val Thr
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 Lys Gly Lys Asp
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<210> 86
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aatgcgggtg actcctttac atggcacaac ggcaagcagt tcaccaccct ggacagagat      900
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tgtgccact ccaacctcaa cggggtctgg taccgcgggg gccattaccg gagccgctac     1020
caggacggag tctactgggc tgagttccga ggaggctctt actcactcaa gaaagtggtg     1080
atgatgatcc gaccgaaccc caacaccttc cactaa                                1116

```

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<210> 89
<211> 371
<212> PRT
<213> Artificial/Unknown

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<220>
<221> misc_feature
<222> ()..()
<223> Synthetic

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```

<400> 89

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```

Met Asn Phe Leu Leu Ser Trp Val His Trp Ser Leu Ala Leu Leu Leu
1              5              10              15

```

```

Tyr Leu His His Ala Lys Trp Ser Gln Ala Ala Pro Met Ala Glu Gly
                20              25              30

```

```

Gly Gly Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln

```

35					40					45					
Arg	Ser	Tyr	Cys	His	Pro	Ile	Glu	Thr	Leu	Val	Asp	Ile	Phe	Gln	Glu
50					55					60					
Tyr	Pro	Asp	Glu	Ile	Glu	Tyr	Ile	Phe	Lys	Pro	Ser	Cys	Val	Pro	Leu
65					70					75					80
Met	Arg	Cys	Gly	Gly	Cys	Cys	Asn	Asp	Glu	Gly	Leu	Glu	Cys	Val	Pro
			85						90					95	
Thr	Glu	Glu	Ser	Asn	Ile	Thr	Met	Gln	Ile	Met	Arg	Ile	Lys	Pro	His
			100					105					110		
Gln	Gly	Gln	His	Ile	Gly	Glu	Met	Ser	Phe	Leu	Gln	His	Asn	Lys	Cys
		115					120					125			
Glu	Cys	Arg	Pro	Lys	Lys	Asp	Arg	Ala	Arg	Gln	Glu	Lys	Cys	Asp	Lys
	130					135					140				
Pro	Arg	Arg	Lys	Pro	Ser	Gly	Pro	Trp	Arg	Asp	Cys	Leu	Gln	Ala	Leu
145					150					155					160
Glu	Asp	Gly	His	Asp	Thr	Ser	Ser	Ile	Tyr	Leu	Val	Lys	Pro	Glu	Asn
			165						170					175	
Thr	Asn	Arg	Leu	Met	Gln	Val	Trp	Cys	Asp	Gln	Arg	His	Asp	Pro	Gly
			180					185					190		
Gly	Trp	Thr	Val	Ile	Gln	Arg	Arg	Leu	Asp	Gly	Ser	Val	Asn	Phe	Phe
		195					200					205			
Arg	Asn	Trp	Glu	Thr	Tyr	Lys	Gln	Gly	Phe	Gly	Asn	Ile	Asp	Gly	Glu
	210					215					220				
Tyr	Trp	Leu	Gly	Leu	Glu	Asn	Ile	Tyr	Trp	Leu	Thr	Asn	Gln	Gly	Asn
225					230					235					240
Tyr	Lys	Leu	Leu	Val	Thr	Met	Glu	Asp	Trp	Ser	Gly	Arg	Lys	Val	Phe
			245						250					255	
Ala	Glu	Tyr	Ala	Ser	Phe	Arg	Leu	Glu	Pro	Glu	Ser	Glu	Tyr	Tyr	Lys
			260					265					270		
Leu	Arg	Leu	Gly	Arg	Tyr	His	Gly	Asn	Ala	Gly	Asp	Ser	Phe	Thr	Trp
		275					280					285			
His	Asn	Gly	Lys	Gln	Phe	Thr	Thr	Leu	Asp	Arg	Asp	His	Asp	Val	Tyr
	290					295					300				
Thr	Gly	Asn	Cys	Ala	His	Tyr	Gln	Lys	Gly	Gly	Trp	Trp	Tyr	Asn	Ala
305					310					315					320
Cys	Ala	His	Ser	Asn	Leu	Asn	Gly	Val	Trp	Tyr	Arg	Gly	Gly	His	Tyr
			325						330					335	
Arg	Ser	Arg	Tyr	Gln	Asp	Gly	Val	Tyr	Trp	Ala	Glu	Phe	Arg	Gly	Gly
			340					345					350		

Ser Tyr Ser Leu Lys Lys Val Val Met Met Ile Arg Pro Asn Pro Asn
 355 360 365

Thr Phe His
 370

<210> 90
 <211> 36
 <212> DNA
 <213> Artificial/Unknown

<220>
 <221> misc_feature
 <222> ()..()
 <223> Synthetic

<400> 90
 gaatggtcct tcattgatcc gcctcggctt gtcaca

36

<210> 91
 <211> 36
 <212> DNA
 <213> Artificial/Unknown

<220>
 <221> misc_feature
 <222> ()..()
 <223> Synthetic

<400> 91
 tgtgacaagc cgaggcggat caatgaagga ccattc

36

<210> 92
 <211> 29
 <212> DNA
 <213> Artificial/Unknown

<220>
 <221> misc_feature
 <222> ()..()
 <223> Synthetic

<400> 92
 cgcggatcct cagtcaatag gcttgatca

29

<210> 93
 <211> 1104
 <212> DNA
 <213> Artificial/Unknown

<220>
 <221> misc_feature
 <222> ()..()
 <223> Synthetic

<400> 93
 atgaactttc tgctgtcttg ggtgcattgg agccttgctt tgctgctcta cctccaccat

60

gccaagtggc cccaggctgc acccatggca gaaggaggag ggcagaatca tcacgaagtg

120

gtgaagttca tggatgtcta tcagcgcagc tactgccatc caatcgagac cctggtggac 180
 atcttccagg agtaccctga tgagatcgag tacatcttca agccatcctg tgtgcccctg 240
 atgcatgacg ggggctgctg caatgacgag ggccctggagt gtgtgcccac tgaggagtcc 300
 aacatcacca tgcagattat gcggatcaaa cctcaccaag gccagcacat aggagagatg 360
 agcttcctac agcacaacaa atgtgaatgc agaccaaaga aagatagagc aagacaagaa 420
 aaatgtgaca agccgagggc gatcaatgaa ggaccattca aagactgtca gcaagcaaaa 480
 gaagctgggc attcgggtcag tgggatttat atgattaaac ctgaaaacag caatggacca 540
 atgcagttat ggtgtgaaaa cagtttggac cctggggggt ggactgttat tcagaaaaga 600
 acagacggct ctgtcaactt cttcagaaat tgggaaaatt ataagaaagg gtttggaaac 660
 attgacggag aatactggct tggactggaa aatatctata tgcttagcaa tcaagataat 720
 tacaagttat tgattgaatt agaagactgg agtgataaaa aagtctatgc agaatacagc 780
 agctttcgtc tggaacctga aagtgaattc tatagactgc gcctgggaac ttaccaggga 840
 aatgcagggg attctatgat gtggcataat ggtaaacaat tcaccacact ggacagagat 900
 aaagatatgt atgcaggaaa ctgcgcccac tttcataaag gaggctgggtg gtacaatgcc 960
 tgtgcacatt ctaacctaaa tggagtatgg tacagaggag gccattacag aagcaagcac 1020
 caagatggaa ttttctgggc cgaatacaga ggcggggtcat actccttaag agcagttcag 1080
 atgatgatca agcctattga ctga 1104

<210> 94
 <211> 367
 <212> PRT
 <213> Artificial/Unknown

<220>
 <221> misc_feature
 <222> ()..()
 <223> Synthetic

<400> 94 !

Met Asn Phe Leu Leu Ser Trp Val His Trp Ser Leu Ala Leu Leu Leu
1 5 10 15

Tyr Leu His His Ala Lys Trp Ser Gln Ala Ala Pro Met Ala Glu Gly
20 25 30

Gly Gly Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln
35 40 45

Arg Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile Phe Gln Glu
50 55 60

Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu
 65 70 75 80
 Met Arg Cys Gly Gly Cys Cys Asn Asp Glu Gly Leu Glu Cys Val Pro
 85 90 95
 Thr Glu Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His
 100 105 110
 Gln Gly Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys
 115 120 125
 Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg Gln Glu Lys Cys Asp Lys
 130 135 140
 Pro Arg Arg Ile Asn Glu Gly Pro Phe Lys Asp Cys Gln Gln Ala Lys
 145 150 155 160
 Glu Ala Gly His Ser Val Ser Gly Ile Tyr Met Ile Lys Pro Glu Asn
 165 170 175
 Ser Asn Gly Pro Met Gln Leu Trp Cys Glu Asn Ser Leu Asp Pro Gly
 180 185 190
 Gly Trp Thr Val Ile Gln Lys Arg Thr Asp Gly Ser Val Asn Phe Phe
 195 200 205
 Arg Asn Trp Glu Asn Tyr Lys Lys Gly Phe Gly Asn Ile Asp Gly Glu
 210 215 220
 Tyr Trp Leu Gly Leu Glu Asn Ile Tyr Met Leu Ser Asn Gln Asp Asn
 225 230 235 240
 Tyr Lys Leu Leu Ile Glu Leu Glu Asp Trp Ser Asp Lys Lys Val Tyr
 245 250 255
 Ala Glu Tyr Ser Ser Phe Arg Leu Glu Pro Glu Ser Glu Phe Tyr Arg
 260 265 270
 Leu Arg Leu Gly Thr Tyr Gln Gly Asn Ala Gly Asp Ser Met Met Trp
 275 280 285
 His Asn Gly Lys Gln Phe Thr Thr Leu Asp Arg Asp Lys Asp Met Tyr
 290 295 300
 Ala Gly Asn Cys Ala His Phe His Lys Gly Gly Trp Trp Tyr Asn Ala
 305 310 315 320
 Cys Ala His Ser Asn Leu Asn Gly Val Trp Tyr Arg Gly Gly His Tyr
 325 330 335
 Arg Ser Lys His Gln Asp Gly Ile Phe Trp Ala Glu Tyr Arg Gly Gly
 340 345 350
 Ser Tyr Ser Leu Arg Ala Val Gln Met Met Ile Lys Pro Ile Asp
 355 360 365

<210> 95

<211> 1387

<212> DNA
 <213> Artificial/Unknown

<220>
 <221> misc_feature
 <222> ()..()
 <223> Synthetic

<220>
 <221> misc_feature
 <222> (1201)..(1219)
 <223> "n" may be any nucleotide

<220>
 <221> misc_feature
 <222> (1295)..(1324)
 <223> "n" may be any nucleotide

<400> 95
 atgtggcaga ttgttttctt tactctgagc tgtgatcttg tcttggccgc agcctataac 60
 aacttttcgga agagcatgga cagcatagga aagaagcaat atcaggtcca gcatgggtcc 120
 tgcagctaca ctttcctcct gccagagatg gacaactgcc gctcttcctc cagcccctac 180
 gtgtccaatg ctgtgcagag ggacgcgccg ctggaatacg atgactcggg gcagaggctg 240
 caagtgtctg agaacatcat ggaaaacaac actcagtggc taatgaaggc agagaatata 300
 tcccaggaca acatgaagaa agaaatggta gagatacagc agaatgcagt acagaaccag 360
 acggctgtga tgatagaaat agggacaaac ctgttgaacc aaacagcgga gcaaacgcgg 420
 aagttaactg atgtggaagc ccaagtatta aatcagacca cgagacttga acttcagctc 480
 ttggaacact ccctctcgac aaacaaattg gaaaaacaga ttttggacca gaccagtga 540
 ataaacaaat tgcaagataa gaacagtttc ctagaaaaga aggtgctagc tatggaagac 600
 aagcacatca tccaactaca gtcaataaaa gaagagaaag atcagctaca ggtgttagta 660
 tccaagcaga attccatcat tgaagaactc gaaaaaaaaa tagtgactgc cacggtgaat 720
 aattcagttc ttcagaagca gcaacatgat ctcatggaga cagttaataa cttactgact 780
 atgatgtcca catcaaacgc agctaaggac ccactgtttg ctaaagaaga acaaatcagc 840
 ttcagagact gtgctgaagt attcaaatca ggacacacca cgaatggcat ctacacgtta 900
 acattcccta attctacaga agagatcaag gcctactgtg acatggaagc tggaggaggc 960
 ggggtggaaa ttattcagcg acgtgaggat ggacgcgttg catttcagag gacttggaaa 1020
 gaatataaag tgggatttgg taacctctca gaaaaatatt ggctgggaaa tgagtttgtt 1080
 tcgcaactga ctaatcagca acgctatgtg cttaaaatac accttaaaga ctgggaaggg 1140
 aatgaggctt actcattgta tgaacatttc tatctctcaa gtgaagaact caattatagg 1200

```

nnnnnnnnnn nnnnnnnnng gcaatgattt tagcacaagg gatggagcca ccgncanatg 1260
tatttgcaaa tgttcacaaa tgctaacagn aggtnnnnnn nnnnnnnnnn nnnnnnnnnn 1320
nnnntactgg aaaggctcag gctattcgct caaggccaca accatgatga tccgaccagc 1380
agatttc 1387

```

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<210> 96
<211> 360
<212> PRT
<213> Artificial/Unknown

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<220>
<221> misc_feature
<222> ()..()
<223> Synthetic

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<220>
<221> misc_feature
<222> (269)..(272)
<223> "Xaa" may be any amino acid

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<400> 96

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```

Met Trp Gln Ile Val Phe Phe Thr Leu Ser Cys Asp Leu Val Leu Ala
1             5             10             15

```

```

Ala Ala Tyr Asn Asn Phe Arg Lys Ser Met Asp Ser Ile Gly Lys Lys
                20             25             30

```

```

Gln Tyr Gln Val Gln His Gly Ser Cys Ser Tyr Thr Phe Leu Leu Pro
35             40             45

```

```

Glu Met Asp Asn Cys Arg Ser Ser Ser Pro Tyr Val Ser Asn Ala
50             55             60

```

```

Val Gln Arg Asp Ala Pro Leu Glu Tyr Asp Asp Ser Val Gln Arg Leu
65             70             75             80

```

```

Gln Val Leu Glu Asn Ile Met Glu Asn Asn Thr Gln Trp Leu Met Lys
85             90             95

```

```

Leu Glu Asn Ile Ser Gln Asp Asn Met Lys Lys Glu Met Val Glu Ile
100            105            110

```

```

Gln Gln Asn Ala Val Gln Asn Gln Thr Ala Val Met Ile Glu Ile Gly
115            120            125

```

```

Thr Asn Leu Leu Asn Gln Thr Ala Glu Gln Thr Arg Lys Leu Thr Asp
130            135            140

```

```

Val Glu Ala Gln Val Ser Asn Ala Thr Thr Arg Leu Glu Leu Gln Leu
145            150            155            160

```

```

Leu Glu His Ser Leu Ser Thr Asn Lys Leu Glu Lys Gln Ile Leu Asp
165            170            175

```

```

Gln Thr Ser Glu Ile Asn Lys Leu Gln Asp Lys Asn Ser Phe Leu Glu

```

[illegible]

Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu
65 70 75 80

Met Arg Cys Gly Gly Cys Cys Asn Asp Glu Gly Leu Glu Cys Val Pro
85 90 95

Thr Glu Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His
100 105 110

Gln Gly Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys
115 120 125

Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg Gln Glu Lys Cys Asp Lys
130 135 140

Pro Arg Arg Met Pro Glu Pro Lys Lys Val Phe Cys Asn Met Asp Val
145 150 155 160

Asn Gly Gly Gly Trp Thr Val Ile Gln His Arg Glu Asp Gly Ser Leu
165 170 175

Asp Phe Gln Arg Gly Trp Lys Glu Tyr Lys Met Gly Phe Gly Asn Pro
180 185 190

Ser Gly Glu Tyr Trp Leu Gly Asn Glu Phe Ile Phe Ala Ile Thr Ser
195 200 205

Gln Arg Gln Tyr Met Leu Arg Ile Glu Leu Met Asp Trp Glu Gly Asn
210 215 220

Arg Ala Tyr Ser Gln Tyr Asp Arg Phe His Ile Gly Asn Glu Lys Gln
225 230 235 240

Asn Tyr Arg Leu Tyr Leu Lys Gly His Thr Gly Thr Ala Gly Lys Gln
245 250 255

Ser Ser Leu Ile Leu His Gly Ala Asp Phe Ser Thr Lys Asp Ala Asp
260 265 270

Asn Asp Asn Cys Met Cys Lys Cys Ala Leu Met Leu Thr Gly Gly Trp
275 280 285

Trp Phe Asp Ala Cys Gly Pro Ser Asn Leu Asn Gly Met Phe Tyr Thr
290 295 300

Ala Gly Gln Asn His Gly Lys Leu Asn Gly Ile Lys Trp His Tyr Phe
305 310 315 320

Lys Gly Pro Ser Tyr Ser Leu Arg Ser Thr Thr Met Met Ile Arg Pro
325 330 335

Leu Asp Phe

<210> 98

<211> 361

<212> DNA

<213> Artificial/Unknown

<220>

<221> misc_feature
 <222> ()..()
 <223> Synthetic

<400> 98
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 agtgctggag aacatcatgg aaaacaacac tcagtggcta atgaaggtag agaatatatc 120
 ccaggacaac atgaagaaag aaatggtaga gatacagcag aatgcagtac agaaccagac 180
 ggctgtgatg atagaaatag ggacaaacct gttgaaccaa acagcggagc aaacgcggaa 240
 gttaactgat gtggaagccc aagtattaaa tcagaccacg agacttgaac ttcagctctt 300
 ggaacactcc ctctcgacaa acaaattgga aaaacagatt ttggaccaga ccagtgaaat 360
 a 361

<210> 99
 <211> 123
 <212> PRT
 <213> Artificial/Unknown

<220>
 <221> misc_feature
 <222> ()..()
 <223> Synthetic

<400> 99

Val	Ser	Asn	Ala	Val	Gln	Arg	Asp	Ala	Pro	Leu	Glu	Tyr	Asp	Asp	Ser	1	5	10	15
Val	Gln	Arg	Leu	Gln	Val	Leu	Glu	Asn	Ile	Met	Glu	Asn	Asn	Thr	Gln	20	25	30	
Trp	Leu	Met	Lys	Leu	Glu	Asn	Ile	Ser	Gln	Asp	Asn	Met	Lys	Lys	Glu	35	40	45	
Met	Val	Glu	Ile	Gln	Gln	Asn	Ala	Val	Gln	Asn	Gln	Thr	Ala	Val	Met	50	55	60	
Ile	Glu	Ile	Gly	Thr	Asn	Leu	Leu	Asn	Gln	Thr	Ala	Glu	Gln	Thr	Arg	65	70	75	80
Lys	Leu	Thr	Asp	Val	Glu	Ala	Gln	Val	Ser	Asn	Ala	Thr	Thr	Arg	Leu	85	90	95	
Glu	Leu	Gln	Leu	Leu	Glu	His	Ser	Leu	Ser	Thr	Asn	Lys	Leu	Glu	Lys	100	105	110	
Gln	Ile	Leu	Asp	Gln	Thr	Ser	Glu	Ile	Asn	Lys	115	120							

<210> 100
 <211> 462
 <212> PRT
 <213> Artificial/Unknown

<220>

<221> misc_feature

<222> ()..()

<223> Synthetic

<400> 100

Val	Ser	Asn	Ala	Val	Gln	Arg	Asp	Ala	Pro	Leu	Glu	Tyr	Asp	Asp	Ser		
1				5					10					15			
Val	Gln	Arg	Leu	Gln	Val	Leu	Glu	Asn	Ile	Met	Glu	Asn	Asn	Thr	Gln		
			20					25					30				
Trp	Leu	Met	Lys	Leu	Glu	Asn	Ile	Ser	Gln	Asp	Asn	Met	Lys	Lys	Glu		
		35					40					45					
Met	Val	Glu	Ile	Gln	Gln	Asn	Ala	Val	Gln	Asn	Gln	Thr	Ala	Val	Met		
	50					55					60						
Ile	Glu	Ile	Gly	Thr	Asn	Leu	Leu	Asn	Gln	Thr	Ala	Glu	Gln	Thr	Arg		
65					70				75						80		
Lys	Leu	Thr	Asp	Val	Glu	Ala	Gln	Val	Ser	Asn	Ala	Thr	Thr	Arg	Leu		
				85					90					95			
Glu	Leu	Gln	Leu	Leu	Glu	His	Ser	Leu	Ser	Thr	Asn	Lys	Leu	Glu	Lys		
			100					105					110				
Gln	Ile	Leu	Asp	Gln	Thr	Ser	Glu	Ile	Asn	Lys	Met	Asn	Phe	Leu	Leu		
		115					120					125					
Ser	Trp	Val	His	Trp	Ser	Leu	Ala	Leu	Leu	Leu	Tyr	Leu	His	His	Ala		
	130					135					140						
Lys	Trp	Ser	Gln	Ala	Ala	Pro	Met	Ala	Glu	Gly	Gly	Gly	Gln	Asn	His		
145				150						155					160		
His	Glu	Val	Val	Lys	Phe	Met	Asp	Val	Tyr	Gln	Arg	Ser	Tyr	Cys	His		
			165					170						175			
Pro	Ile	Glu	Thr	Leu	Val	Asp	Ile	Phe	Gln	Glu	Tyr	Pro	Asp	Glu	Ile		
		180					185						190				
Glu	Tyr	Ile	Phe	Lys	Pro	Ser	Cys	Val	Pro	Leu	Met	Arg	Cys	Gly	Gly		
	195						200					205					
Cys	Cys	Asn	Asp	Glu	Gly	Leu	Glu	Cys	Val	Pro	Thr	Glu	Glu	Ser	Asn		
	210					215					220						
Ile	Thr	Met	Gln	Ile	Met	Arg	Ile	Lys	Pro	His	Gln	Gly	Gln	His	Ile		
225				230						235					240		
Gly	Glu	Met	Ser	Phe	Leu	Gln	His	Asn	Lys	Cys	Glu	Cys	Arg	Pro	Lys		
			245					250						255			
Lys	Asp	Arg	Ala	Arg	Gln	Glu	Lys	Cys	Asp	Lys	Pro	Arg	Arg	Met	Pro		
		260					265						270				

Glu Pro Lys Lys Val Phe Cys Asn Met Asp Val Asn Gly Gly Gly Trp
 275 280 285
 Thr Val Ile Gln His Arg Glu Asp Gly Ser Leu Asp Phe Gln Arg Gly
 290 295 300
 Trp Lys Glu Tyr Lys Met Gly Phe Gly Asn Pro Ser Gly Glu Tyr Trp
 305 310 315 320
 Leu Gly Asn Glu Phe Ile Phe Ala Ile Thr Ser Gln Arg Gln Tyr Met
 325 330 335
 Leu Arg Ile Glu Leu Met Asp Trp Glu Gly Asn Arg Ala Tyr Ser Gln
 340 345 350
 Tyr Asp Arg Phe His Ile Gly Asn Glu Lys Gln Asn Tyr Arg Leu Tyr
 355 360 365
 Leu Lys Gly His Thr Gly Thr Ala Gly Lys Gln Ser Ser Leu Ile Leu
 370 375 380
 His Gly Ala Asp Phe Ser Thr Lys Asp Ala Asp Asn Asp Asn Cys Met
 385 390 395 400
 Cys Lys Cys Ala Leu Met Leu Thr Gly Gly Trp Trp Phe Asp Ala Cys
 405 410 415
 Gly Pro Ser Asn Leu Asn Gly Met Phe Tyr Thr Ala Gly Gln Asn His
 420 425 430
 Gly Lys Leu Asn Gly Ile Lys Trp His Tyr Phe Lys Gly Pro Ser Tyr
 435 440 445
 Ser Leu Arg Ser Thr Thr Met Met Ile Arg Pro Leu Asp Phe
 450 455 460
 <210> 101
 <211> 224
 <212> PRT
 <213> Homo sapiens
 <400> 101
 Lys Pro Ser Gly Pro Trp Arg Asp Cys Leu Gln Ala Leu Glu Asp Gly
 1 5 10 15
 His Asp Thr Ser Ser Ile Tyr Leu Val Lys Pro Glu Asn Thr Asn Arg
 20 25 30
 Leu Met Gln Val Trp Cys Asp Gln Arg His Asp Pro Gly Gly Trp Thr
 35 40 45
 Val Ile Gln Arg Arg Leu Asp Gly Ser Val Asn Phe Phe Arg Asn Trp
 50 55 60
 Glu Thr Tyr Lys Gln Gly Phe Gly Asn Ile Asp Gly Glu Tyr Trp Leu
 65 70 75 80
 Gly Leu Glu Asn Ile Tyr Trp Leu Thr Asn Gln Gly Asn Tyr Lys Leu

Leu	Val	Thr	Met	Glu	Asp	Trp	Ser	Gly	Arg	Lys	Val	Phe	Ala	Glu	Tyr
			100					105					110		
Ala	Ser	Phe	Arg	Leu	Glu	Pro	Glu	Ser	Glu	Tyr	Tyr	Lys	Leu	Arg	Leu
		115					120					125			
Gly	Arg	Tyr	His	Gly	Asn	Ala	Gly	Asp	Ser	Phe	Thr	Trp	His	Asn	Gly
	130					135					140				
Lys	Gln	Phe	Thr	Thr	Leu	Asp	Arg	Asp	His	Asp	Val	Tyr	Thr	Gly	Asn
145					150					155					160
Cys	Ala	His	Tyr	Gln	Lys	Gly	Gly	Trp	Trp	Tyr	Asn	Ala	Cys	Ala	His
				165				170						175	
Ser	Asn	Leu	Asn	Gly	Val	Trp	Tyr	Arg	Gly	Gly	His	Tyr	Arg	Ser	Arg
			180					185					190		
Tyr	Gln	Asp	Gly	Val	Tyr	Trp	Ala	Glu	Phe	Arg	Gly	Gly	Ser	Tyr	Ser
		195					200					205			
Leu	Lys	Lys	Val	Val	Met	Met	Ile	Arg	Pro	Asn	Pro	Asn	Thr	Phe	His
	210					215					220				
<210>	102														
<211>	220														
<212>	PRT														
<213>	Homo sapiens														
<400>	102														
Ile	Asn	Glu	Gly	Pro	Phe	Lys	Asp	Cys	Gln	Gln	Ala	Lys	Glu	Ala	Gly
1				5					10					15	
His	Ser	Val	Ser	Gly	Ile	Tyr	Met	Ile	Lys	Pro	Glu	Asn	Ser	Asn	Gly
			20					25					30		
Pro	Met	Gln	Leu	Trp	Cys	Glu	Asn	Ser	Leu	Asp	Pro	Gly	Gly	Trp	Thr
		35					40					45			
Val	Ile	Gln	Lys	Arg	Thr	Asp	Gly	Ser	Val	Asn	Phe	Phe	Arg	Asn	Trp
	50					55					60				
Glu	Asn	Tyr	Lys	Lys	Gly	Phe	Gly	Asn	Ile	Asp	Gly	Glu	Tyr	Trp	Leu
65					70					75					80
Gly	Leu	Glu	Asn	Ile	Tyr	Met	Leu	Ser	Asn	Gln	Asp	Asn	Tyr	Lys	Leu
				85					90					95	
Leu	Ile	Glu	Leu	Glu	Asp	Trp	Ser	Asp	Lys	Lys	Val	Tyr	Ala	Glu	Tyr
			100					105					110		
Ser	Ser	Phe	Arg	Leu	Glu	Pro	Glu	Ser	Glu	Phe	Tyr	Arg	Leu	Arg	Leu
		115					120					125			
Gly	Thr	Tyr	Gln	Gly	Asn	Ala	Gly	Asp	Ser	Met	Met	Trp	His	Asn	Gly
	130					135						140			

Lys Gln Phe Thr Thr Leu Asp Arg Asp Lys Asp Met Tyr Ala Gly Asn
145 150 155 160

Cys Ala His Phe His Lys Gly Gly Trp Trp Tyr Asn Ala Cys Ala His
165 170 175

Ser Asn Leu Asn Gly Val Trp Tyr Arg Gly Gly His Tyr Arg Ser Lys
180 185 190

His Gln Asp Gly Ile Phe Trp Ala Glu Tyr Arg Gly Gly Ser Tyr Ser
195 200 205

Leu Arg Ala Val Gln Met Met Ile Lys Pro Ile Asp
210 215 220

<210> 103

<211> 371

<212> PRT

<213> Artificial/Unknown

<220>

<221> misc_feature

<222> ()..()

<223> Synthetic

<400> 103

Met Asn Phe Leu Leu Ser Trp Val His Trp Ser Leu Ala Leu Leu Leu
1 5 10 15

Tyr Leu His His Ala Lys Trp Ser Gln Ala Ala Pro Met Ala Glu Gly
20 25 30

Gly Gly Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln
35 40 45

Arg Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile Phe Gln Glu
50 55 60

Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu
65 70 75 80

Met Arg Cys Gly Gly Cys Cys Asn Asp Glu Gly Leu Glu Cys Val Pro
85 90 95

Thr Glu Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His
100 105 110

Gln Gly Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys
115 120 125

Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg Gln Glu Lys Cys Asp Lys
130 135 140

Pro Arg Arg Lys Pro Ser Gly Pro Trp Arg Asp Cys Leu Gln Ala Leu
145 150 155 160

Glu Asp Gly His Asp Thr Ser Ser Ile Tyr Leu Val Lys Pro Glu Asn

	165		170		175
Thr Asn Arg	Leu Met Gln Val Trp Cys Asp Gln Arg His Asp Pro Gly				
	180		185		190
Gly Trp Thr Val Ile Gln Arg Arg Leu Asp Gly Ser Val Asn Phe Phe					
	195		200		205
Arg Asn Trp Glu Thr Tyr Lys Gln Gly Phe Gly Asn Ile Asp Gly Glu					
	210		215		220
Tyr Trp Leu Gly Leu Glu Asn Ile Tyr Trp Leu Thr Asn Gln Gly Asn					
	225		230		235
Tyr Lys Leu Leu Val Thr Met Glu Asp Trp Ser Gly Arg Lys Val Phe					
	245		250		255
Ala Glu Tyr Ala Ser Phe Arg Leu Glu Pro Glu Ser Glu Tyr Tyr Lys					
	260		265		270
Leu Arg Leu Gly Arg Tyr His Gly Asn Ala Gly Asp Ser Phe Thr Trp					
	275		280		285
His Asn Gly Lys Gln Phe Thr Thr Leu Asp Arg Asp His Asp Val Tyr					
	290		295		300
Thr Gly Asn Cys Ala His Tyr Gln Lys Gly Gly Trp Trp Tyr Asn Ala					
	305		310		315
Cys Ala His Ser Asn Leu Asn Gly Val Trp Tyr Arg Gly Gly His Tyr					
	325		330		335
Arg Ser Arg Tyr Gln Asp Gly Val Tyr Trp Ala Glu Phe Arg Gly Gly					
	340		345		350
Ser Tyr Ser Leu Lys Lys Val Val Met Met Ile Arg Pro Asn Pro Asn					
	355		360		365
Thr Phe His					
	370				

<210> 104
 <211> 367
 <212> PRT
 <213> Artificial/Unknown

<220>
 <221> misc_feature
 <222> ()..()
 <223> Synthetic

<400> 104

Met Asn Phe Leu Leu Ser Trp Val His Trp Ser Leu Ala Leu Leu Leu			
1	5	10	15
Tyr Leu His His Ala Lys Trp Ser Gln Ala Ala Pro Met Ala Glu Gly			
20	25	30	

Gly Gly Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln
 35 40 45
 Arg Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile Phe Gln Glu
 50 55 60
 Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu
 65 70 75 80
 Met Arg Cys Gly Gly Cys Cys Asn Asp Glu Gly Leu Glu Cys Val Pro
 85 90 95
 Thr Glu Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His
 100 105 110
 Gln Gly Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys
 115 120 125
 Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg Gln Glu Lys Cys Asp Lys
 130 135 140
 Pro Arg Arg Ile Asn Glu Gly Pro Phe Lys Asp Cys Gln Gln Ala Lys
 145 150 155 160
 Glu Ala Gly His Ser Val Ser Gly Ile Tyr Met Ile Lys Pro Glu Asn
 165 170 175
 Ser Asn Gly Pro Met Gln Leu Trp Cys Glu Asn Ser Leu Asp Pro Gly
 180 185 190
 Gly Trp Thr Val Ile Gln Lys Arg Thr Asp Gly Ser Val Asn Phe Phe
 195 200 205
 Arg Asn Trp Glu Asn Tyr Lys Lys Gly Phe Gly Asn Ile Asp Gly Glu
 210 215 220
 Tyr Trp Leu Gly Leu Glu Asn Ile Tyr Met Leu Ser Asn Gln Asp Asn
 225 230 235 240
 Tyr Lys Leu Leu Ile Glu Leu Glu Asp Trp Ser Asp Lys Lys Val Tyr
 245 250 255
 Ala Glu Tyr Ser Ser Phe Arg Leu Glu Pro Glu Ser Glu Phe Tyr Arg
 260 265 270
 Leu Arg Leu Gly Thr Tyr Gln Gly Asn Ala Gly Asp Ser Met Met Trp
 275 280 285
 His Asn Gly Lys Gln Phe Thr Thr Leu Asp Arg Asp Lys Asp Met Tyr
 290 295 300
 Ala Gly Asn Cys Ala His Phe His Lys Gly Gly Trp Trp Tyr Asn Ala
 305 310 315 320
 Cys Ala His Ser Asn Leu Asn Gly Val Trp Tyr Arg Gly Gly His Tyr
 325 330 335
 Arg Ser Lys His Gln Asp Gly Ile Phe Trp Ala Glu Tyr Arg Gly Gly
 340 345 350

Ser Tyr Ser Leu Arg Ala Val Gln Met Met Ile Lys Pro Ile Asp
 355 360 365

<210> 105
 <211> 53
 <212> PRT
 <213> Homo sapiens
 <400> 105

Lys Leu Glu Asn Tyr Ile Gln Asp Asn Met Lys Lys Glu Met Val Glu
 1 5 10 15

Ile Gln Gln Asn Ala Val Gln Asn Gln Thr Ala Val Met Ile Glu Ile
 20 25 30

Gly Thr Asn Leu Leu Asn Gln Thr Ala Glu Gln Thr Arg Lys Leu Thr
 35 40 45

Asp Val Glu Ala Gln
 50

<210> 106
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 106

His Gly Leu Leu Gln Leu Gly Gln Gly Leu Arg Glu His Ala Glu Arg
 1 5 10 15

Thr Arg Ser Gln Leu Ser Ala Leu Glu Arg Arg Leu Ser Ala Cys Gly
 20 25 30

Ser Ala Cys Gln Gly Thr Glu Gly Ser Thr Asp Leu Pro Leu Ala Pro
 35 40 45

Glu Ser Arg Val Asp Pro Glu Val Leu His Ser Leu Gln Thr Gln Leu
 50 55 60

Lys Ala Gln Asn Ser Arg Ile Gln Gln Leu Phe His Lys Val Ala Gln
 65 70 75 80

Gln Gln Arg His Leu Glu Lys Gln His Leu Arg Ile Gln His Leu Gln
 85 90 95

Ser Gln Phe Gly Leu Leu Asp His Lys
 100 105

<210> 107
 <211> 192
 <212> PRT
 <213> Homo sapiens

<400> 107

Gly Pro Ile Cys Val Asn Thr Lys Gly Gln Asp Ala Ser Thr Ile Lys

1	5	10	15
Asp Met Ile Thr Arg Met Asp Leu Glu Asn Leu Lys Asp Val Leu Ser	20	25	30
Arg Gln Lys Arg Glu Ile Asp Val Leu Gln Leu Val Val Asp Val Asp	35	40	45
Gly Asn Ile Val Asn Glu Val Lys Leu Leu Arg Lys Glu Ser Arg Asn	50	55	60
Met Asn Ser Arg Val Thr Gln Leu Tyr Met Gln Leu Leu His Glu Ile	65	70	75
Ile Arg Lys Arg Asp Asn Ser Leu Glu Leu Ser Gln Leu Glu Asn Lys	85	90	95
Ile Leu Asn Val Thr Thr Glu Met Leu Lys Met Ala Thr Arg Tyr Arg	100	105	110
Glu Leu Glu Val Lys Tyr Ala Ser Leu Thr Asp Leu Val Asn Asn Gln	115	120	125
Ser Val Met Ile Thr Leu Leu Glu Glu Gln Cys Leu Arg Ile Phe Ser	130	135	140
Arg Gln Asp Thr His Val Ser Pro Pro Leu Val Gln Val Val Pro Gln	145	150	155
His Ile Pro Asn Ser Gln Gln Tyr Thr Pro Gly Leu Leu Gly Gly Asn	165	170	175
Glu Ile Gln Arg Asp Pro Gly Tyr Pro Arg Asp Leu Met Pro Pro Pro	180	185	190

<210> 108
 <211> 196
 <212> PRT
 <213> Homo sapiens
 <400> 108

Pro Tyr Val Ser Asn Ala Val Gln Arg Asp Ala Pro Leu Glu Tyr Asp	1	5	10	15
Asp Ser Val Gln Arg Leu Gln Val Leu Glu Asn Ile Met Glu Asn Asn	20	25	30	
Thr Gln Trp Leu Met Lys Leu Glu Asn Tyr Ile Gln Asp Asn Met Lys	35	40	45	
Lys Glu Met Val Glu Ile Gln Gln Asn Ala Val Gln Asn Gln Thr Ala	50	55	60	
Val Met Ile Glu Ile Gly Thr Asn Leu Leu Asn Gln Thr Ala Glu Gln	65	70	75	80
Thr Arg Lys Leu Thr Asp Val Glu Ala Gln Val Leu Asn Gln Thr Thr	85	90	95	

Arg Leu Glu Leu Gln Leu Leu Glu His Ser Leu Ser Thr Asn Lys Leu
100 105 110

Glu Lys Gln Ile Leu Asp Gln Thr Ser Glu Ile Asn Lys Leu Gln Asp
115 120 125

Lys Asn Ser Phe Leu Glu Lys Lys Val Leu Ala Met Glu Asp Lys His
130 135 140

Ile Ile Gln Leu Gln Ser Ile Lys Glu Glu Lys Asp Gln Leu Gln Val
145 150 155 160

Leu Val Ser Lys Gln Asn Ser Ile Ile Glu Glu Leu Glu Lys Lys Ile
165 170 175

Val Thr Ala Thr Val Asn Asn Ser Val Leu Gln Lys Gln Gln His Asp
180 185 190

Leu Met Glu Thr
195

<210> 109

<211> 105

<212> PRT

<213> Homo sapiens

<400> 109

His Gly Leu Leu Gln Leu Gly Gln Gly Leu Arg Glu His Ala Glu Arg
1 5 10 15

Thr Arg Ser Gln Leu Ser Ala Leu Glu Arg Arg Leu Ser Ala Cys Gly
20 25 30

Ser Ala Cys Gln Gly Thr Glu Gly Ser Thr Asp Leu Pro Leu Ala Pro
35 40 45

Glu Ser Arg Val Asp Pro Glu Val Leu His Ser Leu Gln Thr Gln Leu
50 55 60

Lys Ala Gln Asn Ser Arg Ile Gln Gln Leu Phe His Lys Val Ala Gln
65 70 75 80

Gln Gln Arg His Leu Glu Lys Gln His Leu Arg Ile Gln His Leu Gln
85 90 95

Ser Gln Phe Gly Leu Leu Asp His Lys
100 105

<210> 110

<211> 192

<212> PRT

<213> Homo sapiens

<400> 110

Gly Pro Ile Cys Val Asn Thr Lys Gly Gln Asp Ala Ser Thr Ile Lys
1 5 10 15

Asp Met Ile Thr Arg Met Asp Leu Glu Asn Leu Lys Asp Val Leu Ser
 20 25 30
 Arg Gln Lys Arg Glu Ile Asp Val Leu Gln Leu Val Val Asp Val Asp
 35 40 45
 Gly Asn Ile Val Asn Glu Val Lys Leu Leu Arg Lys Glu Ser Arg Asn
 50 55 60
 Met Asn Ser Arg Val Thr Gln Leu Tyr Met Gln Leu Leu His Glu Ile
 65 70 75 80
 Ile Arg Lys Arg Asp Asn Ser Leu Glu Leu Ser Gln Leu Glu Asn Lys
 85 90 95
 Ile Leu Asn Val Thr Thr Glu Met Leu Lys Met Ala Thr Arg Tyr Arg
 100 105 110
 Glu Leu Glu Val Lys Tyr Ala Ser Leu Thr Asp Leu Val Asn Asn Gln
 115 120 125
 Ser Val Met Ile Thr Leu Leu Glu Glu Gln Cys Leu Arg Ile Phe Ser
 130 135 140
 Arg Gln Asp Thr His Val Ser Pro Pro Leu Val Gln Val Val Pro Gln
 145 150 155 160
 His Ile Pro Asn Ser Gln Gln Tyr Thr Pro Gly Leu Leu Gly Gly Asn
 165 170 175
 Glu Ile Gln Arg Asp Pro Gly Tyr Pro Arg Asp Leu Met Pro Pro Pro
 180 185 190

 <210> 111
 <211> 135
 <212> PRT
 <213> Homo sapiens

 <400> 111

 Asp Ala Ser Thr Ile Lys Asp Met Ile Thr Arg Met Asp Leu Glu Asn
 1 5 10 15
 Leu Lys Asp Val Leu Ser Arg Gln Lys Arg Glu Ile Asp Val Leu Gln
 20 25 30
 Leu Val Val Asp Val Asp Gly Asn Ile Val Asn Glu Val Lys Leu Leu
 35 40 45
 Arg Lys Glu Ser Arg Asn Met Asn Ser Arg Val Thr Gln Leu Tyr Met
 50 55 60
 Gln Leu Leu His Glu Ile Ile Arg Lys Arg Asp Asn Ser Leu Glu Leu
 65 70 75 80
 Ser Gln Leu Glu Asn Lys Ile Leu Asn Val Thr Thr Glu Met Leu Lys
 85 90 95

Met Ala Thr Arg Tyr Arg Glu Leu Glu Val Lys Tyr Ala Ser Leu Thr
 100 105 110

Asp Leu Val Asn Asn Gln Ser Val Met Ile Thr Leu Leu Glu Glu Gln
 115 120 125

Cys Leu Arg Ile Phe Ser Arg
 130 135

<210> 112

<211> 101

<212> PRT

<213> Homo sapiens

<400> 112

Glu Leu Glu Leu Leu Asn Asn Glu Leu Leu Lys Gln Lys Arg Gln Ile
 1 5 10 15

Glu Thr Leu Gln Gln Leu Val Glu Val Asp Gly Gly Ile Val Ser Glu
 20 25 30

Val Lys Leu Leu Arg Lys Glu Ser Arg Asn Met Asn Ser Arg Val Thr
 35 40 45

Gln Leu Tyr Met Gln Leu Leu His Glu Ile Ile Arg Lys Arg Asp Asn
 50 55 60

Ala Leu Glu Leu Ser Gln Leu Glu Asn Arg Ile Leu Asn Gln Thr Ala
 65 70 75 80

Asp Met Leu Gln Leu Ala Ser Lys Tyr Lys Asp Leu Glu His Lys Tyr
 85 90 95

Gln His Leu Ala Thr
 100

<210> 113

<211> 493

<212> PRT

<213> Homo sapiens

<400> 113

Met Arg Pro Leu Cys Val Thr Cys Trp Trp Leu Gly Leu Leu Ala Ala
 1 5 10 15

Met Gly Ala Val Ala Gly Gln Glu Asp Gly Phe Glu Gly Thr Glu Glu
 20 25 30

Gly Ser Pro Arg Glu Phe Ile Tyr Leu Asn Arg Tyr Lys Arg Ala Gly
 35 40 45

Glu Ser Gln Asp Lys Cys Thr Tyr Thr Phe Ile Val Pro Gln Gln Arg
 50 55 60

Val Thr Gly Ala Ile Cys Val Asn Ser Lys Glu Pro Glu Val Leu Leu
 65 70 75 80

Glu	Asn	Arg	Val	His	Lys	Gln	Glu	Leu	Glu	Leu	Leu	Asn	Asn	Glu	Leu	85	90	95
Leu	Lys	Gln	Lys	Arg	Gln	Ile	Glu	Thr	Leu	Gln	Gln	Leu	Val	Glu	Val	100	105	110
Asp	Gly	Gly	Ile	Val	Ser	Glu	Val	Lys	Leu	Leu	Arg	Lys	Glu	Ser	Arg	115	120	125
Asn	Met	Asn	Ser	Arg	Val	Thr	Gln	Leu	Tyr	Met	Gln	Leu	Leu	His	Glu	130	135	140
Ile	Ile	Arg	Lys	Arg	Asp	Asn	Ala	Leu	Glu	Leu	Ser	Gln	Leu	Glu	Asn	145	150	155
Arg	Ile	Leu	Asn	Gln	Thr	Ala	Asp	Met	Leu	Gln	Leu	Ala	Ser	Lys	Tyr	165	170	175
Lys	Asp	Leu	Glu	His	Lys	Tyr	Gln	His	Leu	Ala	Thr	Leu	Ala	His	Asn	180	185	190
Gln	Ser	Glu	Ile	Ile	Ala	Gln	Leu	Glu	Glu	His	Cys	Gln	Arg	Val	Pro	195	200	205
Ser	Ala	Arg	Pro	Val	Pro	Gln	Pro	Pro	Pro	Ala	Ala	Pro	Pro	Arg	Val	210	215	220
Tyr	Gln	Pro	Pro	Thr	Tyr	Asn	Arg	Ile	Ile	Asn	Gln	Ile	Ser	Thr	Asn	225	230	235
Glu	Ile	Gln	Ser	Asp	Gln	Asn	Leu	Lys	Val	Leu	Pro	Pro	Pro	Leu	Pro	245	250	255
Thr	Met	Pro	Thr	Leu	Thr	Ser	Leu	Pro	Ser	Ser	Thr	Asp	Lys	Pro	Ser	260	265	270
Gly	Pro	Trp	Arg	Asp	Cys	Leu	Gln	Ala	Leu	Glu	Asp	Gly	His	Asp	Thr	275	280	285
Ser	Ser	Ile	Tyr	Leu	Val	Lys	Pro	Glu	Asn	Thr	Asn	Arg	Leu	Met	Gln	290	295	300
Val	Trp	Cys	Asp	Gln	Arg	His	Asp	Pro	Gly	Gly	Trp	Thr	Val	Ile	Gln	305	310	315
Arg	Arg	Leu	Asp	Gly	Ser	Val	Asn	Phe	Phe	Arg	Asn	Trp	Glu	Thr	Tyr	325	330	335
Lys	Gln	Gly	Phe	Gly	Asn	Ile	Asp	Gly	Glu	Tyr	Trp	Leu	Gly	Leu	Glu	340	345	350
Asn	Ile	Tyr	Trp	Leu	Thr	Asn	Gln	Gly	Asn	Tyr	Lys	Leu	Leu	Val	Thr	355	360	365
Met	Glu	Asp	Trp	Ser	Gly	Arg	Lys	Val	Phe	Ala	Glu	Tyr	Ala	Ser	Phe	370	375	380
Arg	Leu	Glu	Pro	Glu	Ser	Glu	Tyr	Tyr	Lys	Leu	Arg	Leu	Gly	Arg	Tyr	385	390	395
																		400

His Gly Asn Ala Gly Asp Ser Phe Thr Trp His Asn Gly Lys Gln Phe
 405 410 415

Thr Thr Leu Asp Arg Asp His Asp Val Tyr Thr Gly Asn Cys Ala His
 420 425 430

Tyr Gln Lys Gly Gly Trp Trp Tyr Asn Ala Cys Ala His Ser Asn Leu
 435 440 445

Asn Gly Val Trp Tyr Arg Gly Gly His Tyr Arg Ser Arg Tyr Gln Asp
 450 455 460

Gly Val Tyr Trp Ala Glu Phe Arg Gly Gly Ser Tyr Ser Leu Lys Lys
 465 470 475 480

Val Val Met Met Ile Arg Pro Asn Pro Asn Thr Phe His
 485 490

<210> 114

<211> 54

<212> PRT

<213> Homo sapiens

<400> 114

Thr Asn Lys Leu Glu Arg Gln Met Leu Met Gln Ser Arg Glu Leu Gln
 1 5 10 15

Arg Leu Gln Gly Arg Asn Arg Ala Leu Glu Thr Arg Leu Gln Ala Leu
 20 25 30

Glu Ala Gln His Gln Ala Gln Leu Asn Ser Leu Gln Glu Lys Arg Glu
 35 40 45

Gln Leu His Ser Leu Leu
 50

<210> 115

<211> 145

<212> PRT

<213> Homo sapiens

<400> 115

Thr Gln Gln Val Lys Gln Leu Glu Gln Ala Leu Gln Asn Asn Thr Gln
 1 5 10 15

Trp Leu Lys Lys Leu Glu Arg Ala Ile Lys Thr Ile Leu Arg Ser Lys
 20 25 30

Leu Glu Gln Val Gln Gln Gln Met Ala Gln Asn Gln Thr Ala Pro Met
 35 40 45

Leu Glu Leu Gly Thr Ser Leu Leu Asn Gln Thr Thr Ala Gln Ile Arg
 50 55 60

Lys Leu Thr Asp Met Glu Ala Gln Leu Leu Asn Gln Thr Ser Arg Met
 65 70 75 80

Asp Ala Gln Met Pro Glu Thr Phe Leu Ser Thr Asn Lys Leu Glu Asn
85 90 95

Gln Leu Leu Leu Gln Arg Gln Lys Leu Gln Gln Leu Gln Gly Gln Asn
100 105 110

Ser Ala Leu Glu Lys Arg Leu Gln Ala Leu Glu Thr Lys Gln Gln Glu
115 120 125

Glu Leu Ala Ser Ile Leu Ser Lys Lys Ala Lys Leu Leu Asn Thr Leu
130 135 140

Ser
145

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<210> 116
<211> 465
<212> DNA
<213> Homo sapiens
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<400>	116									
gcccatggag	agactgcctg	caggcccttg	aggatggcca	cgacaccagc	tccatctacc					60
tggtgaagcc	ggagaacacc	aaccgcctca	tgcagggtgtg	gtgcgaccag	agacacgacc					120
ccgggggctg	gaccgtcatc	cagagacgcc	tggatggctc	tgttaacttc	ttcaggaact					180
gggagacgta	caagcaaggg	tttgggaaca	ttgacggcga	atactggctg	ggcctggaga					240
acatttactg	gctgacgaac	caaggcaact	acaaactcct	ggtgaccatg	gaggactggt					300
ccggccgcaa	agtctttgca	gaatacgcca	gtttccgcct	ggaacctgag	agcgagtatt					360
ataagctgcg	gctggggcgc	taccatggca	atgcgggtga	ctcctttaca	tggcacaaacg					420
gcaagcagtt	caccaccccag	gacagagatc	atgatgtcta	cacag						465

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<210> 117
<211> 305
<212> DNA
<213> Homo sapiens
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<400>      117
ggattgccag gagctgttcc aggttgggga gaggcagagt ggactatttg aaatccagcc      60
tcaggggtct cgcgcatttt tggatgaactg caagatgacc tcagatggag gctggacagt      120
aattcagagg cgccacgatg gctcagtgga cttcaaccgg ccctkggtag cctacaaggc      180
ggtggttttg ggggatcccc acggcgagtt ctggcttggg tcttgagaaa aggkkgcatag      240
catcacgggg ggaccggaac agccgmctgg ccgtgcaamc tgcggggact gggatgggca      300
aacgc                                             305

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<210>	118
<211>	458
<212>	DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (224)..(244)

<223> "n" may be any nucleotide

<220>

<221> misc_feature

<222> (347)..(347)

<223> "n" may be any nucleotide

<220>

<221> misc_feature

<222> (353)..(353)

<223> "n" may be any nucleotide

<220>

<221> misc_feature

<222> (384)..(384)

<223> "n" may be any nucleotide

<220>

<221> misc_feature

<222> (400)..(400)

<223> "n" may be any nucleotide

<220>

<221> misc_feature

<222> (446)..(446)

<223> "n" may be any nucleotide

<400> 118

attataagct gcggtctgggg cgataccatg gcaatgcggg tgactccttt acatggcaca 60

acggcaagca gttcaccacc ctggacagag atcatgatgt ctacacagga aactgtgccc 120

actaccagaa gggaggctgg tgggtataacg cctgtgccc ctccaacctc aaccgggggtc 180

tgggtaccg cg ggggccatta ccggagccgc taccaggacg gagngtactg ggctgagttc 240

cgaggaggct cttactcact caaggaaacg tgggtgatgat gatccgaccg aaccccaaca 300

ccttcacta agccagctcc cctcctgac ctctccgtgg ccattgncag gangcccacc 360

ctggtcacgc tggccacagc acanagaaca actcctcact agttcatcct gaggctggga 420

ggaccgggat gctggattct gttttnccga agtcactg 458

<210> 119

<211> 173

<212> DNA

<213> Artificial/Unknown

<220>

<221> misc_feature

<222> ()..()

<223> Synthetic

<400> 119
 tataagctgc ggctggggcg ataccatggc aatgcgggtg actcctttac atggcacaac 60
 ggcaagcagt tcaccacctt ggacagagat catgatgtct acacaggaaa ctgtgcccac 120
 taccagaagg gaggctggtg gtataacgcc tgtgcccact ccaacctcaa ccg 173

<210> 120
 <211> 638
 <212> DNA
 <213> Artificial/Unknown

<220>
 <221> misc_feature
 <222> ()..()
 <223> Synthetic

<400> 120
 gcccatggag agactgcctg caggccctgg aggatggcca cgacaccagc tccatctacc 60
 tggatgaagcc ggagaacacc aaccgcctca tgcaggtgtg gtgcgaccag agacacgacc 120
 ccgggggctg gaccgtcatc cagagacgcc tggatggctc tgttaacttc ttcaggaact 180
 gggagacgta caagcaaggg tttgggaaca ttgacggcga atactggctg ggcctggaga 240
 acatttactg gctgacgaac caaggcaact acaaactcct ggtgaccatg gaggactggt 300
 ccggccgcaa agtctttgca gaatacgcca gtttccgcct ggaacctgag agcgagtatt 360
 ataagctgcg gctggggcgc taccatggca atgcgggtga ctctttaca tggcacaacg 420
 gcaagcagtt caccaccag gacagagatc atgatgtcta cacagtataa gctgcggctg 480
 gggcgatacc atggcaatgc gggtgactcc ttacatggc acaacggcaa gcagttcacc 540
 accctggaca gagatcatga tgtctacaca ggaaactgtg cccactacca gaaggaggc 600
 tggatgtata acgcctgtgc ccaactccaac ctcaaccg 638

<210> 121
 <211> 4045
 <212> DNA
 <213> Artificial/Unknown

<220>
 <221> misc_feature
 <222> ()..()
 <223> Synthetic

<400> 121
 gcccatggag agactgcctg caggccctgg aggatggcca cgacaccagc tccatctacc 60
 tggatgaagcc ggagaacacc aaccgcctca tgcaggtgtg gtgcgaccag agacacgacc 120
 ccgggggctg gaccgtcatc cagagacgcc tggatggctc tgttaacttc ttcaggaact 180
 gggagacgta caagcaaggg tttgggaaca ttgacggcga atactggctg ggcctggaga 240

acatttactg gctgacgaac caaggcaact acaaactcct ggtgaccatg gaggactggt 300
 ccggccgcaa agtcttttgca gaatacgcca gtttccgcct ggaacctgag agcgagtatt 360
 ataagctgcg gctggggcgc taccatggca atgcggggtga ctcttttaca tggcacaacg 420
 gcaagcagtt caccaccag gacagagatc atgatgtcta cacagtataa gctgcggctg 480
 gggcgatacc atggcaatgc gggtgactcc tttacatggc acaacggcaa gcagttcacc 540
 accctggaca gagatcatga tgtctacaca ggaaactgtg cccactacca gaagggaggg 600
 tgggtgtata acgcctgtgc ccactccaac ctcaaccgga aaaagagagg aagagaaacc 660
 atttagagac tgtgcagatg tatatcaagc tggttttaat aaaagtggaa tctacactat 720
 ttatattaat aatatgccag aacccaaaaa ggtgttttgc aatatggatg tcaatggggg 780
 aggttggact gtaatacaac atcgtgaaga tggaagtcta gatttccaaa gaggctggaa 840
 ggaatataaa atgggttttg gaaatccctc cggatgaatat tggctgggga atgagtttat 900
 ttttgccatt accagtcaga ggcagtacat gctaagaatt gagttaatgg actgggaagg 960
 gaaccgagcc tattcacagt atgacagatt ccacatagga aatgaaaagc aaaactatag 1020
 gttgtattta aaaggtcaca ctgggacagc aggaaaacag agcagcctga tcttacacgg 1080
 tgctgatttc agcactaaag atgctgataa tgacaactgt atgtgcaaat gtgccctcat 1140
 gttaacagga ggatgggtgg ttgatgcttg tggcccctcc aatctaaatg gaatgttcta 1200
 tactgcggga caaaaccatg gaaaactgaa tgggataaag tggcactact tcaaagggcc 1260
 cagttactcc ttacgttcca caactatgat gattcgacct ttagatTTTT gaaagcgcaa 1320
 tgtcagaagc gattatgaaa gcaacaaaga aatccggaga agctgccagg tgagaaactg 1380
 ttgaaaact tcagaagcaa acaatattgt ctcccttcca gcaataagtg gtagttatgt 1440
 gaagtcacca aggttcttga ccgtgaatct ggagccgttt gagttcaca gagtctctac 1500
 ttgggggtgac agtgctcacg tggctcgact atagaaaact ccactgactg tcgggcttta 1560
 aaaaggggaag aaactgctga gcttgctgtg cttcaaacta ctactggacc ttatttttga 1620
 actatggtag ccagatgata aatatggtta atttcatgta aaacagaaaa aaagagtga 1680
 aaagagaata tacatgaaga atagaaacaa gcctgccata atccttttga aaagatgtat 1740
 tataccagtg aaaaggcggt atatctatgc aaacctacta acaaattata ctgttgacac 1800
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 agaagcctaa ttccagtatc atacttacta gttgatttct gcttaccat cttcaaata 1920
 aaattccatt tttgtaagcc ataatgaact gtagtacatg gacaataagt gtgtggtaga 1980
 aacaaactcc attactctga tttttgatac agttttcaga aaaagaaatg aacataatca 2040

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ttcagtccat	tcccttaggc	aattttta	ttttaaaaat	tattatcagg	ggagaaaaat	2700
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ctgactaaga	aattctgact	gctagtgtgc	ataaataact	caatggaaat	attcctatgg	2820
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ttccaaactc	atattacaaa	aacaaaataa	aataataaaa	aaagaaagca	tgatattttac	3420
tgttttgttg	tctgggtttg	agaaatgaaa	tattgtttcc	aattatttat	aataaatcag	3480
tataaaatgt	tttatgattg	ttatgtgtat	tatgtaatac	gtacatgttt	atggcaattt	3540
aacatgtgta	ttcttttcat	ttaattgttt	cagaatagga	taattaggta	ttogaatttt	3600
gtctttaaaa	ttcatgtggg	ttctatgcaa	agttcttcat	atcatcacia	cattatttga	3660
tttaaataaa	attgaaagtg	cacccatggc	agaaggagga	gggcagaatc	atcacgaagt	3720
ggatgaagttc	atggatgtct	atcagcgcag	ctactgccat	ccaatcgaga	ccctggtgga	3780

catcttccag gagtaccctg atgagatcga gtacatcttc aagccatcct gtgtgcccct 3840
gatgcgatgc gggggctgct gcaatgacga gggcctggag tgtgtgcccct ctgaggagtc 3900
caacatcacc atgcagatta tgcggatcaa acctcaccaa ggccagcaca taggagagat 3960
gagcttccta cagcacaaca aatgtgaatg cagaccaaag aaagatagag caagacaaga 4020
aaaatgtgac aagccgaggc ggtga 4045

<210> 122
<211> 280
<212> PRT
<213> Artificial/Unknown

<220>
<221> misc_feature
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<223> Synthetic

<400> 122

Met Trp Gln Ile Val Phe Phe Thr Leu Ser Cys Asp Leu Val Leu Ala
1 5 10 15
Ala Ala Tyr Asn Asn Phe Arg Lys Ser Met Asp Ser Ile Gly Lys Lys
20 25 30
Gln Tyr Gln Val Gln His Gly Ser Cys Ser Tyr Thr Phe Leu Leu Pro
35 40 45
Glu Met Asp Asn Cys Arg Ser Ser Ser Ser Pro Tyr Val Ser Asn Ala
50 55 60
Val Gln Arg Asp Ala Pro Leu Glu Tyr Asp Asp Ser Val Gln Arg Leu
65 70 75 80
Gln Val Leu Glu Asn Ile Met Glu Asn Asn Thr Gln Trp Leu Met Lys
85 90 95
Val Glu Asn Ile Ser Gln Asp Asn Met Lys Lys Glu Met Val Glu Ile
100 105 110
Gln Gln Asn Ala Val Gln Asn Gln Thr Ala Val Met Ile Glu Ile Gly
115 120 125
Thr Asn Leu Leu Asn Gln Thr Ala Glu Gln Thr Arg Lys Leu Thr Asp
130 135 140
Val Glu Ala Gln Val Leu Asn Gln Thr Thr Arg Leu Glu Leu Gln Leu
145 150 155 160
Leu Glu His Ser Leu Ser Thr Asn Lys Leu Glu Lys Gln Ile Leu Asp
165 170 175
Gln Thr Ser Glu Ile Asn Lys Leu Gln Asp Lys Asn Ser Phe Leu Glu
180 185 190
Lys Lys Val Leu Ala Met Glu Asp Lys His Ile Ile Gln Leu Gln Ser

195 200 205
 Ile Lys Glu Glu Lys Asp Gln Leu Gln Val Leu Val Ser Lys Gln Asn
 210 215 220
 Ser Ile Ile Glu Glu Leu Glu Lys Lys Ile Val Thr Ala Thr Val Asn
 225 230 235 240
 Asn Ser Val Leu Gln Lys Gln Gln His Asp Leu Met Glu Thr Val Asn
 245 250 255
 Asn Leu Leu Thr Met Met Ser Thr Ser Asn Ala Ala Lys Asp Pro Thr
 260 265 270
 Val Ala Lys Glu Glu Gln Ile Ser
 275 280

 <210> 123
 <211> 221
 <212> PRT
 <213> Homo sapiens

 <400> 123

 Glu Glu Glu Lys Pro Phe Arg Asp Cys Ala Asp Val Tyr Gln Ala Gly
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 Phe Asn Lys Ser Gly Ile Tyr Thr Ile Tyr Ile Asn Asn Met Pro Glu
 20 25 30
 Pro Lys Lys Val Phe Cys Asn Met Asp Val Asn Gly Gly Gly Trp Thr
 35 40 45
 Val Ile Gln His Arg Glu Asp Gly Ser Leu Asp Phe Gln Arg Gly Trp
 50 55 60
 Lys Glu Tyr Lys Met Gly Phe Gly Asn Pro Ser Gly Glu Tyr Trp Leu
 65 70 75 80
 Gly Asn Glu Phe Ile Phe Ala Ile Thr Ser Gln Arg Gln Tyr Met Leu
 85 90 95
 Arg Ile Glu Leu Met Asp Trp Glu Gly Asn Arg Ala Tyr Ser Gln Tyr
 100 105 110
 Asp Arg Phe His Ile Gly Asn Glu Lys Gln Asn Tyr Arg Leu Tyr Leu
 115 120 125
 Lys Gly His Thr Gly Thr Ala Gly Lys Gln Ser Ser Leu Ile Leu His
 130 135 140
 Gly Ala Asp Phe Ser Thr Lys Asp Ala Asp Asn Asp Asn Cys Met Cys
 145 150 155 160
 Lys Cys Ala Leu Met Leu Thr Gly Gly Trp Trp Phe Asp Ala Cys Gly
 165 170 175
 Pro Ser Asn Leu Asn Gly Met Phe Tyr Thr Ala Gly Gln Asn His Gly
 180 185 190

Lys Leu Asn Gly Ile Lys Trp His Tyr Phe Lys Gly Pro Ser Tyr Ser
 195 200 205

Leu Arg Ser Thr Thr Met Met Ile Arg Pro Leu Asp Phe
 210 215 220

<210> 124
 <211> 1506
 <212> DNA
 <213> Artificial/Unknown

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 <223> Synthetic

<400> 124
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 aacttttcgga agagcatgga cagcatagga aagaagcaat atcaggtcca gcatgggtcc 120
 tgcagctaca ctttcctcct gccagagatg gacaactgcc gctcttcctc cagcccctac 180
 gtgtccaatg ctgtgcagag ggacgcgccg ctgcaatacg atgactcggt gcagaggctg 240
 caagtgctgg agaacatcat ggaaaacaac actcagtggc taatgaaggt agagaatata 300
 tcccaggaca acatgaagaa agaaatggta gagatacagc agaatgcagt acagaaccag 360
 acggctgtga tgatagaaat agggacaaac ctgttgaacc aaacagcgga gcaaacgcgg 420
 aagttaactg atgtggaagc ccaagtatta aatcagacca cgagacttga acttcagctc 480
 ttggaacact ccctctcgac aaacaaattg gaaaaacaga ttttggaacca gaccagtga 540
 ataaacaaat tgcaagataa gaacagtttc ctagaaaaga aggtgctagc tatggaagac 600
 aagcacatca tccaactaca gtcaataaaa gaagagaaaag atcagctaca ggtgttagta 660
 tccaagcaga attccatcat tgaagaactc gaaaaaaaa tagtgactgc cacggtgaat 720
 aattcagttc ttcagaagca gcaacatgat ctcatggaga cagttaataa cttactgact 780
 atgatgtcca catcaaacgc agctaaggac ccactgttg cttaaagaaga acaaatcagc 840
 gaggaagaga aaccatttag agactgtgca gatgtatatc aagctggttt taataaaagt 900
 ggaatctaca ctatttatat taataatatg ccagaacca aaaaggtgtt ttgcaatatg 960
 gatgtcaatg ggggaggttg gactgtaata caacatcgtg aagatggaag tctagatttc 1020
 caaagaggct ggaaggaata taaaatgggt tttggaaatc cctccggtga atattggctg 1080
 gggaatgagt ttatttttgc cattaccagt cagaggcagt acatgctaag aattgagtta 1140
 atggactggg aagggaaccg agcctattca cagtatgaca gattccacat aggaaatgaa 1200
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<210> 125
<211> 501
<212> PRT
<213> Artificial/Unknown
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<220>
<221> misc_feature
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<223> Synthetic
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<400> 125

Met Trp Gln Ile Val Phe Phe Thr Leu Ser Cys Asp Leu Val Leu Ala
1 5 10 15

Ala Ala Tyr Asn Asn Phe Arg Lys Ser Met Asp Ser Ile Gly Lys Lys
20 25 30

Gln Tyr Gln Val Gln His Gly Ser Cys Ser Tyr Thr Phe Leu Leu Pro
35 40 45

Glu Met Asp Asn Cys Arg Ser Ser Ser Ser Pro Tyr Val Ser Asn Ala
50 55 60

Val	Gln	Arg	Asp	Ala	Pro	Leu	Glu	Tyr	Asp	Asp	Ser	Val	Gln	Arg	Leu
65					70					75					80

Gln Val Leu Glu Asn Ile Met Glu Asn Asn Thr Gln Trp Leu Met Lys
85 90 95

Val Glu Asn Ile Ser Gln Asp Asn Met Lys Lys Glu Met Val Glu Ile
100 105 110

Gln Gln Asn Ala Val Gln Asn Gln Thr Ala Val Met Ile Glu Ile Gly
115 120 125

Thr Asn Leu Leu Asn Gln Thr Ala Glu Gln Thr Arg Lys Leu Thr Asp
130 135 140

Val	Glu	Ala	Gln	Val	Leu	Asn	Gln	Thr	Thr	Arg	Leu	Glu	Leu	Gln	Leu
145					150					155					160

Leu Glu His Ser Leu Ser Thr Asn Lys Leu Glu Lys Gln Ile Leu Asp
165 170 175

Gln Thr Ser, Glu Ile Asn Lys Leu Gln Asp Lys Asn Ser Phe Leu Glu
180 185 190

Lys Lys Val Leu Ala Met Glu Asp Lys His Ile Ile Gln Leu Gln Ser
 195 200 205
 Ile Lys Glu Glu Lys Asp Gln Leu Gln Val Leu Val Ser Lys Gln Asn
 210 215 220
 Ser Ile Ile Glu Glu Leu Glu Lys Lys Ile Val Thr Ala Thr Val Asn
 225 230 235 240
 Asn Ser Val Leu Gln Lys Gln Gln His Asp Leu Met Glu Thr Val Asn
 245 250 255
 Asn Leu Leu Thr Met Met Ser Thr Ser Asn Ala Ala Lys Asp Pro Thr
 260 265 270
 Val Ala Lys Glu Glu Gln Ile Ser Glu Glu Glu Lys Pro Phe Arg Asp
 275 280 285
 Cys Ala Asp Val Tyr Gln Ala Gly Phe Asn Lys Ser Gly Ile Tyr Thr
 290 295 300
 Ile Tyr Ile Asn Asn Met Pro Glu Pro Lys Lys Val Phe Cys Asn Met
 305 310 315 320
 Asp Val Asn Gly Gly Gly Trp Thr Val Ile Gln His Arg Glu Asp Gly
 325 330 335
 Ser Leu Asp Phe Gln Arg Gly Trp Lys Glu Tyr Lys Met Gly Phe Gly
 340 345 350
 Asn Pro Ser Gly Glu Tyr Trp Leu Gly Asn Glu Phe Ile Phe Ala Ile
 355 360 365
 Thr Ser Gln Arg Gln Tyr Met Leu Arg Ile Glu Leu Met Asp Trp Glu
 370 375 380
 Gly Asn Arg Ala Tyr Ser Gln Tyr Asp Arg Phe His Ile Gly Asn Glu
 385 390 395 400
 Lys Gln Asn Tyr Arg Leu Tyr Leu Lys Gly His Thr Gly Thr Ala Gly
 405 410 415
 Lys Gln Ser Ser Leu Ile Leu His Gly Ala Asp Phe Ser Thr Lys Asp
 420 425 430
 Ala Asp Asn Asp Asn Cys Met Cys Lys Cys Ala Leu Met Leu Thr Gly
 435 440 445
 Gly Trp Trp Phe Asp Ala Cys Gly Pro Ser Asn Leu Asn Gly Met Phe
 450 455 460
 Tyr Thr Ala Gly Gln Asn His Gly Lys Leu Asn Gly Ile Lys Trp His
 465 470 475 480
 Tyr Phe Lys Gly Pro Ser Tyr Ser Leu Arg Ser Thr Thr Met Met Ile
 485 490 495
 Arg Pro Leu Asp Phe
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<210> 126
 <211> 648
 <212> PRT
 <213> Artificial/Unknown

<220>
 <221> misc_feature
 <222> ()..()
 <223> Synthetic

<400> 126

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Met Asn Phe Leu Leu Ser Trp Val His Trp Ser Leu Ala Leu Leu Leu
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Tyr Leu His His Ala Lys Trp Ser Gln Ala Ala Pro Met Ala Glu Gly
              20              25              30

Gly Gly Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln
              35              40              45

Arg Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile Phe Gln Glu
50              55              60

Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu
65              70              75              80

Met Arg Cys Gly Gly Cys Cys Asn Asp Glu Gly Leu Glu Cys Val Pro
              85              90              95

Thr Glu Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His
              100              105              110

Gln Gly Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys
              115              120              125

Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg Gln Glu Lys Cys Asp Lys
130              135              140

Pro Arg Arg Met Trp Gln Ile Val Phe Phe Thr Leu Ser Cys Asp Leu
145              150              155              160

Val Leu Ala Ala Ala Tyr Asn Asn Phe Arg Lys Ser Met Asp Ser Ile
              165              170              175

Gly Lys Lys Gln Tyr Gln Val Gln His Gly Ser Cys Ser Tyr Thr Phe
              180              185              190

Leu Leu Pro Glu Met Asp Asn Cys Arg Ser Ser Ser Ser Pro Tyr Val
              195              200              205

Ser Asn Ala Val Gln Arg Asp Ala Pro Leu Glu Tyr Asp Asp Ser Val
210              215              220

Gln Arg Leu Gln Val Leu Glu Asn Ile Met Glu Asn Asn Thr Gln Trp
225              230              235              240

Leu Met Lys Val Glu Asn Ile Ser Gln Asp Asn Met Lys Lys Glu Met

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245										250					255				
Val	Glu	Ile	Gln	Gln	Asn	Ala	Val	Gln	Asn	Gln	Thr	Ala	Val	Met	Ile				
			260					265					270						
Glu	Ile	Gly	Thr	Asn	Leu	Leu	Asn	Gln	Thr	Ala	Glu	Gln	Thr	Arg	Lys				
		275					280					285							
Leu	Thr	Asp	Val	Glu	Ala	Gln	Val	Leu	Asn	Gln	Thr	Thr	Arg	Leu	Glu				
	290					295					300								
Leu	Gln	Leu	Leu	Glu	His	Ser	Leu	Ser	Thr	Asn	Lys	Leu	Glu	Lys	Gln				
305					310					315					320				
Ile	Leu	Asp	Gln	Thr	Ser	Glu	Ile	Asn	Lys	Leu	Gln	Asp	Lys	Asn	Ser				
			325						330					335					
Phe	Leu	Glu	Lys	Lys	Val	Leu	Ala	Met	Glu	Asp	Lys	His	Ile	Ile	Gln				
		340						345					350						
Leu	Gln	Ser	Ile	Lys	Glu	Glu	Lys	Asp	Gln	Leu	Gln	Val	Leu	Val	Ser				
		355					360					365							
Lys	Gln	Asn	Ser	Ile	Ile	Glu	Glu	Leu	Glu	Lys	Lys	Ile	Val	Thr	Ala				
	370					375					380								
Thr	Val	Asn	Asn	Ser	Val	Leu	Gln	Lys	Gln	Gln	His	Asp	Leu	Met	Glu				
385					390					395					400				
Thr	Val	Asn	Asn	Leu	Leu	Thr	Met	Met	Ser	Thr	Ser	Asn	Ala	Ala	Lys				
				405				410						415					
Asp	Pro	Thr	Val	Ala	Lys	Glu	Glu	Gln	Ile	Ser	Glu	Glu	Glu	Lys	Pro				
			420					425					430						
Phe	Arg	Asp	Cys	Ala	Asp	Val	Tyr	Gln	Ala	Gly	Phe	Asn	Lys	Ser	Gly				
		435					440					445							
Ile	Tyr	Thr	Ile	Tyr	Ile	Asn	Asn	Met	Pro	Glu	Pro	Lys	Lys	Val	Phe				
	450					455					460								
Cys	Asn	Met	Asp	Val	Asn	Gly	Gly	Gly	Trp	Thr	Val	Ile	Gln	His	Arg				
465					470					475					480				
Glu	Asp	Gly	Ser	Leu	Asp	Phe	Gln	Arg	Gly	Trp	Lys	Glu	Tyr	Lys	Met				
				485					490					495					
Gly	Phe	Gly	Asn	Pro	Ser	Gly	Glu	Tyr	Trp	Leu	Gly	Asn	Glu	Phe	Ile				
			500					505					510						
Phe	Ala	Ile	Thr	Ser	Gln	Arg	Gln	Tyr	Met	Leu	Arg	Ile	Glu	Leu	Met				
	515						520					525							
Asp	Trp	Glu	Gly	Asn	Arg	Ala	Tyr	Ser	Gln	Tyr	Asp	Arg	Phe	His	Ile				
	530					535					540								
Gly	Asn	Glu	Lys	Gln	Asn	Tyr	Arg	Leu	Tyr	Leu	Lys	Gly	His	Thr	Gly				
545					550					555					560				

Thr Ala Gly Lys Gln Ser Ser Leu Ile Leu His Gly Ala Asp Phe Ser
565 570 575

Thr Lys Asp Ala Asp Asn Asp Asn Cys Met Cys Lys Cys Ala Leu Met
580 585 590

Leu Thr Gly Gly Trp Trp Phe Asp Ala Cys Gly Pro Ser Asn Leu Asn
595 600 605

Gly Met Phe Tyr Thr Ala Gly Gln Asn His Gly Lys Leu Asn Gly Ile
610 615 620

Lys Trp His Tyr Phe Lys Gly Pro Ser Tyr Ser Leu Arg Ser Thr Thr
625 630 635 640

Met Met Ile Arg Pro Leu Asp Phe
645